

# ANNUAL REPORT

*1961*

*Chicago Natural History Museum*













SOUTH ENTRANCE

CHICAGO NATURAL HISTORY MUSEUM  
(FORMERLY FIELD MUSEUM)  
ROOSEVELT ROAD AND LAKE SHORE DRIVE

# Report of the Director

*to the*

## Board of Trustees

*for the year 1961*



CHICAGO NATURAL HISTORY MUSEUM

1962

PRINTED IN THE UNITED STATES OF AMERICA  
BY CHICAGO NATURAL HISTORY MUSEUM PRESS

# Contents

	PAGE
FORMER MEMBERS OF THE BOARD OF TRUSTEES . . . . .	10
FORMER OFFICERS . . . . .	11
BOARD OF TRUSTEES 1961 . . . . .	12
LIST OF STAFF 1961 . . . . .	13
REPORT OF THE DIRECTOR . . . . .	21
Trustees and Officers . . . . .	23
Gifts to the Museum . . . . .	25
The N. W. Harris Public School Extension . . . . .	26
Staff of the Museum . . . . .	27
James Nelson and Anna Louise Raymond Foundation . . . . .	28
Volunteer Workers . . . . .	32
Museum Attendance . . . . .	32
Members' Night . . . . .	32
Memberships . . . . .	33
Special Exhibits . . . . .	33
Lecture Programs for Adults . . . . .	34
Expeditions and Field Trips in 1961 . . . . .	34
Department of Anthropology . . . . .	37
Department of Botany . . . . .	43
Department of Geology . . . . .	49
Department of Zoology . . . . .	55
Library of the Museum . . . . .	65
Public Relations . . . . .	68
Scientific and Professional Societies . . . . .	69
Co-operation with Other Institutions . . . . .	73
Motion Pictures . . . . .	76
Photography and Illustration . . . . .	76
The Book Shop . . . . .	76
Publications and Printing . . . . .	77
Cafeteria and Lunchroom . . . . .	87
Maintenance, Construction, and Engineering . . . . .	87
Attendance and Door Receipts . . . . .	91
Financial Statements . . . . .	92
Accessions 1961 . . . . .	96
MEMBERS OF THE MUSEUM . . . . .	107
Benefactors . . . . .	107
Honorary Members . . . . .	107
Patrons . . . . .	107
Corresponding Members . . . . .	107
Contributors . . . . .	108

MEMBERS OF THE MUSEUM (CONTINUED)	PAGE
Corporate Members . . . . .	110
Life Members . . . . .	110
Non-resident Life Members . . . . .	112
Associate Members . . . . .	113
Non-Resident Associate Members . . . . .	133
Sustaining Members . . . . .	133
Annual Members . . . . .	134
ARTICLES OF INCORPORATION . . . . .	161
AMENDED BY-LAWS . . . . .	163

# Illustrations

	PAGE
South Entrance of Museum . . . . .	FRONTISPIECE
Walther Buchen, 1887-1961 . . . . .	9
Winter Journey . . . . .	31
Effigy Vase . . . . .	36
Mortuary Pottery . . . . .	41
Hemp Exhibit . . . . .	42
Cactus . . . . .	45
English Walnut . . . . .	47
Fossil Shark . . . . .	48
Mammal Exhibit . . . . .	54
Shaving Knife . . . . .	59
Collecting Bats . . . . .	61
War Club . . . . .	64
Fish Model . . . . .	67
New Hall . . . . .	70
Primitive Art . . . . .	75
Meteorite . . . . .	86
Visitors . . . . .	90





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WALTHER BUCHEN

1887—1961

Trustee of the Museum since 1952  
Second Vice-President since 1957  
Contributor and Corporate Member

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	STEPHEN C. SIMMS* . . . . .	1928-1937

\* deceased

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*Pension*—Hughston M. McBain, William V. Kahler, John G. Searle, John T. Pirie, Jr., Samuel Insull, Jr.

\* deceased

† resigned

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E. LELAND WEBBER, B.B.Ad., C.P.A., Assistant Director

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DONALD COLLIER, Ph.D., Curator, South American Archaeology and Ethnology  
GEORGE I. QUIMBY, A.M., Curator, North American Archaeology and Ethnology  
JOHN B. RINALDO, Ph.D., Associate Curator, Archaeology  
KENNETH STARR, Ph.D., Curator, Asiatic Archaeology and Ethnology  
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HOSHIEH TCHEN, Ph.D., Consultant, East Asian Collection  
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FRED EGGAN, Ph.D., Research Associate, Ethnology  
J. ERIC THOMPSON, Dipl.Anth.Camb., Research Associate, Central American Archaeology  
EVETT D. HESTER, M.S., Field Associate

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C. EARLE SMITH, JR., Ph.D., Associate Curator, Vascular Plants\*  
LOUIS O. WILLIAMS, Ph.D., Curator, Central American Botany

\* resigned

† deceased

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EARL E. SHERFF, Ph.D., Research Associate, Systematic Botany  
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MARGERY C. CARLSON, Ph.D., Associate, Botany

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HARRY E. CHANGNON, B.S., Curator of Exhibits  
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RAINER ZANGERL, Ph.D., Curator, Fossil Reptiles  
ROBERT H. DENISON, Ph.D., Curator, Fossil Fishes  
WILLIAM D. TURNBULL, Assistant Curator, Fossil Mammals  
DAVID TECHTER, B.S., Assistant, Fossil Vertebrates  
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GEORGE LANGFORD, Ph.B., Curator, Fossil Plants ¶  
ORVILLE L. GILPIN, Chief Preparator, Fossils  
RONALD J. LAMBERT, Preparator, Fossils  
MAIDI WIEBE LEIBHARDT, Artist  
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ERNST ANTEVS, Ph.D., Research Associate, Glacial Geology  
ALBERT A. DAHLBERG, D.D.S., Research Associate, Fossil Vertebrates  
ERIK N. KJELLESVIG-WAERING, B.Sc., Research Associate, Fossil Invertebrates  
EVERETT C. OLSON, Ph.D., Research Associate, Fossil Vertebrates  
BRYAN PATTERSON, Research Associate, Fossil Vertebrates  
R. H. WHITFIELD, D.D.S., Associate, Fossil Plants  
VIOLET WHITFIELD, B.A., Associate, Fossil Plants

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PEARL SONODA, Assistant, Fishes  
RUPERT L. WENZEL, B.A., Curator, Insects  
HENRY S. DYBAS, B.S., Associate Curator, Insects  
AUGUST ZIEMER, Assistant, Insects  
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ALAN SOLEM, Ph.D., Curator, Lower Invertebrates  
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DOMINICK VILLA, Tanner ¶  
MARIO VILLA, Assistant Taxidermist  
PETER ANDERSON, Assistant Taxidermist  
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ORLANDO PARK, Ph.D., Research Associate, Insects  
CLIFFORD H. POPE, B.S., Research Associate, Amphibians and Reptiles  
CHARLES H. SEEVERS, Ph.D., Research Associate, Insects  
R. M. STRONG, Ph.D., Research Associate, Anatomy  
ROBERT TRAUB, Ph.D., Research Associate, Insects  
ALEX K. WYATT, Research Associate, Insects  
LUIS DE LA TORRE, M.S., Associate, Mammals  
MARION GREY, Associate, Fishes  
WALDEMAR MEISTER, M.D., Associate, Anatomy  
EDWARD M. NELSON, Ph.D., Associate, Fishes

\* resigned

¶ retired



DEPARTMENT OF ZOOLOGY (CONTINUED)

HARRY G. NELSON, B.Sc., Associate, Insects  
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DIOSCORO S. RABOR, M.S., Associate, Birds  
LILLIAN A. ROSS, Ph.B., Associate, Insects  
ELLEN T. SMITH, Associate, Birds  
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BERTHA W. GIBBS, A.B., B.S.inL.S.  
CHIH-WEI PAN, M.S.

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EUGENIA BERNOFF

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CONSTANTIN GLOBALA, Dipl.Eng.



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MARILYN JINDRICH, B.S., Associate

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## DIVISION OF MAINTENANCE

JAMES R. SHOUBA, Superintendent

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LEONARD CARRION, Assistant Chief Engineer

## THE GUARD

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\* resigned

*Annual Report of the Director*

CHICAGO  
NATURAL  
HISTORY  
MUSEUM

# Annual Report

*of the Director*

To the Trustees of the Museum:

I have the honor to present a report of the operations of the Museum for the year ending December 31, 1961.

During the year 1961 the Museum celebrated its Fortieth Anniversary in the present building, which was opened to the public on May 2, 1921. It might be well to note briefly the tremendous progress made by this institution during that period under the leadership of President Stanley Field and the four directors who served under him.

In 1919, the last full year of operation in the old building in Jackson Park, the total attendance amounted to 123,799. In the year 1961 that figure was surpassed by the *monthly* totals in April, May, July, and August, while the annual attendance rose to 1,307,567. Operating expenditures in 1919 were \$150,871 compared with \$1,460,935 in 1961. Attendance in the eight months of 1921 that the building was open amounted to 517,285 persons and climbed steadily until the year 1927 recorded more than a million persons visiting the Museum. The figure of one million has been exceeded every year since.

At the time of the opening in 1921 the exhibits were substantially as they had been at the old building. Since that time new exhibition techniques and acquisition of splendid additional collections have made this Museum a world leader in the exhibition field.

Outstanding exhibits added since coming to the new building include the series of 101 stone and bronze sculptures in Chauncey Keep Memorial Hall representing the principal racial types of the world today, the restorations by Frederick Blaschke of prehistoric man dating from earliest authentic records to the time of Swiss Lake Dwellers, and the unique collection of plant restorations exhibited in the Hall of Plant Life. Noteworthy also are the mounted fossil-group of Gorgosaurus and Lambeosaurus in Stanley Field Hall and the completion of the fossil skeleton of *Brontosaurus excelsus* in 1958 after it had stood incomplete since 1921. In the Department of Zoology the habitat groups of Asiatic mammals that resulted primarily from the Kelly-Roosevelts and Simpson-Roosevelts expeditions and the African waterhole group in Carl E. Akeley Memorial Hall are of unusual merit. In the Department of Anthropology all exhibition halls have been redone and are outstanding in telling the story of the civilizations they represent.

It would be useless to try to list all of the splendid new exhibits produced in the past forty years, but comparison with old records and photographs tells an extremely vivid story of progress.

The half-million dollar gift of Mrs. Anna Louise Raymond in 1925 established the James Nelson and Anna Louise Raymond Foundation, which has provided lecture service and children's education over the span of years since that time. The receipt of the Edward E. Ayer Lecture Fund in 1941 permitted the Museum to continue and improve the lecture series begun in the last century. The Fiftieth Anniversary gift of the late Marshall Field III permitted the Museum to round out the staff and provide improved facilities for scientific research.

Another interesting comparison between 1919 and 1961 is the number of Members of the Museum. The 1919 Annual Report of the Director lists 153 Life Members and 74 Annual Members, compared with the total of 4,224 in these two categories in 1961.

The Museum Library, assisted by generous gifts of a number of funds for library purposes, has become one of the important specialized scientific libraries of the world; while the acquisition of a number of important research collections in many fields of study has made the Museum an important world research-center in the fields of natural history and anthropology. The building itself, which seemed so vast in 1921, now presents serious problems in the way of storage space. Many areas have been equipped with mezzanine floors, and everything possible is being done to permit the housing and protection of specimens while keeping them readily available

for study. The first forty years in the new building have indeed been noteworthy.

Continued attention to the acquisition of collections necessary for research and maintenance of important research in the various fields of our interests have, of course, multiplied our financial problems. The assistance of individuals and foundations, as well as the continuing support of our Members and friends, has been indispensable to the Museum's progress and will be indispensable to the future of the Museum.

## TRUSTEES AND OFFICERS

At the annual meeting of the Board of Trustees President Stanley Field was re-elected to serve for his fifty-third term in that office. All other officers also were re-elected for an additional year: Vice-Presidents Hughston M. McBain, Walther Buchen, and Joseph N. Field, Treasurer Solomon A. Smith, Secretary Clifford C. Gregg, and Assistant Secretary E. Leland Webber.

With deep regret the Board of Trustees announces the death of Walther Buchen, a Trustee of the Museum since 1952 and Second Vice-President of the Museum since 1957. In his memory the Board of Trustees adopted the following resolution:

### WALTHER BUCHEN

1887-1961

"The Trustees of Chicago Natural History Museum record with deep regret and sorrow the loss they have sustained through the death on June 12, 1961, of Walther Buchen. Mr. Buchen was born on December 22, 1887. He received the degree of Master of Arts from the University of Illinois and served on the faculty of the University until he entered the advertising profession, becoming President of the Buchen Company in 1923 and continuing in that capacity until his retirement.

"He had always been a lover of nature, and this wholesome interest brought him into contact with the Museum as early as 1948 when he conferred with curators in the Department of Zoology about collecting birds and mammals for the Museum. From that time on, he continued collecting and presenting to the Museum specimens of great scientific value. In 1952, with Mrs. Buchen, he conducted an expedition to Africa, which resulted in the prepara-

tion of the Museum's outstanding habitat group 'Marsh Birds of the Upper Nile.' This exhibit had been contemplated at the Museum for more than fifteen years, but it remained an unsatisfied want until the Buchens brought it to completion.

"Mr. Buchen was elected a Contributor of the Museum in 1949, but his benefactions to the Museum continued throughout his life. He was elected a Corporate Member and a member of the Board of Trustees in 1952. He had served continuously as a member of the Finance Committee since 1954 and as a Second Vice-President since 1957. At the time of his death he was looking forward to his next expedition for the Museum, to be financed by himself.

"Mr. Buchen was a frequent visitor at the Museum and had a wide acquaintance among the members of its staff. Their interests were his interests, and he will be deeply missed not only by the Board of Trustees but by the Museum staff as well.

"In his contacts with his fellow members of the Board of Trustees, Walther Buchen was known for his genuine interest and concern, his warm friendship, and his ever-ready willingness to be of service. In his absence he will always be remembered.

"Therefore, be it resolved that this expression of our sorrow at his death be entered in the permanent records of the Board of Trustees of the Museum.

"And be it further resolved that our deep sympathy be conveyed to the members of his family and that a copy of this resolution be sent to his widow."

Another loss to the Board of Trustees was sustained in the resignation of Trustee Clarence B. Randall. The many demands upon him in governmental service forced him to sever his ties with the Museum, of which he had been a Trustee since 1946.

At its December meeting the Board of Trustees elected to its membership Bowen Blair, partner of William Blair and Company, John Shedd Reed, vice-president for finance of the Santa Fe Railway, John M. Simpson, chairman of the board of A. M. Castle and Company, and Clifford C. Gregg, Director of the Museum.



## GIFTS TO THE MUSEUM

The Museum received from the estate of the late Edgar C. Borth \$6,771.90. William S. Street gave \$13,875 toward a zoological expedition to Iran. Jack C. Staehle made an unrestricted gift of \$2,167.50, William G. Burt made an unrestricted gift of \$1,116.50, and Rush Watkins contributed \$1,000 to a zoological expedition fund.

Mrs. Stanley Field, a Benefactor of the Museum, added \$6,000 to the Sara Carroll Field Fund. Miss Margaret B. Conover added \$975 to the Conover Game-bird Fund, Dr. Maurice L. Richardson added \$500 to the Maurice L. Richardson Paleontological Fund, and Dr. Clifford C. Gregg added \$200 to the Commander Frank V. Gregg Memorial Fund. The Frederick Reynolds and Abby Kettelle Babcock Fund received \$478.20 from the estate of the late Mrs. Abby K. Babcock (for use of Special Funds see page 94).

Donations to the Walther Buchen Memorial Fund were received from: Mrs. Harve Badgerow, Mrs. William McCormick Blair, Mrs. Walther Buchen, Mr. and Mrs. Harry L. Calvin, Joseph N. Field, Stanley Field, Mr. and Mrs. William B. Greene, Dr. Clifford C. Gregg, Mrs. John C. Nevins, Carl S. Reed, Mr. and Mrs. Louis Ware, and Mr. and Mrs. Cornelius G. Weber.

Roy E. Sturtevant gave \$500 for use by the Department of Geology, Wayne State University (Detroit) contributed \$467.50 toward a zoological publication, and James R. Getz gave \$391.25 for an anthropological field trip. Judd Sackheim contributed \$250 to the Southwest Archaeological Expedition and Mrs. Hermon Dunlap Smith gave \$200 for zoological purposes.

Other gifts came from: American Scandinavian Foundation (Chicago chapter), Amphenol-Borg Electronics Corporation, Edwin C. Austin, George A. Bates, Bowen Blair, William McCormick Blair, Kent Chandler, Peder A. Christensen, Mrs. Edward S. Clark, Robert N. Corning, Mr. and Mrs. Gaylord Donnelley, Walter Erman, Maxwell Hahn, Philip Hershkovitz, National Society of Colonial Dames of America in State of Illinois, John T. Pirie, Jr., Philip S. Rinaldo, Jr., Melvin N. and Mary F. Rothschild Fund, Mr. and Mrs. Reuben M. Schutz, Edgar Uihlein, University of Illinois, Mrs. Archie F. Wilson, and Mrs. Richard Zickman.

Contributors elected by the Board of Trustees are: George F. Arnemann, Edgar C. Borth (posthumously), William G. Burt, Joe Cervenka, Joseph N. Field, James R. Getz, Mrs. John A. Holabird, Jack C. Staehle, Mrs. William S. Street, Mrs. Margaret Teskey, Mrs. Cyril L. Ward, and Alex K. Wyatt. Gifts of materials received during the year are listed at the end of this Report (see page 96).

## THE N. W. HARRIS PUBLIC SCHOOL EXTENSION

The program for which this department was created—that of providing schools in the city of Chicago with regularly scheduled loans of portable Museum exhibits—was carried out through the year with no change in our long-established procedures. As in preceding years, 34 different exhibits of natural-history material were delivered to each public, parochial, and private school and the few other accredited public-service institutions on the department's circulation list. At all times during the school year, between the initial delivery and the final pickup, each recipient had on its premises two of the more-than-a-thousand portable exhibits prepared over the years in the department's workshop. Exchanges were made every tenth school day, as has been customary.

The four men who deliver the exhibits in specially fitted departmental trucks spent nine of every ten days exchanging exhibits and one day assisting in the workshop. Pickup of exhibits at the end of the 1960–61 school year was begun on June 7 and completed on June 22. Delivery for the 1961–62 school year took from September 11 through September 27. The trucks were in operation on 171 days and traveled a combined total of 12,115 miles. At the end of the year 497 names were on the circulation list.

The department was without a preparator from August, 1960, until October, 1961, when Preparator David A. Ross was appointed to the staff. Before coming to Harris Extension he served a three-month apprenticeship in the Plant Reproduction Laboratory of the Museum's Department of Botany. Currently he is concerned with redoing our miniature coal-mine and oil-well exhibits, both of which are obsolete. Preliminary to working on the oil-well exhibit, he spent four days of December in Oklahoma inspecting oil wells, studying modern drilling methods, and collecting pertinent photographs for reference.

Repairs during the year were necessary on 188 of the department's portable exhibits. Breakage in circulation was moderate: twenty-two exhibits were temporarily withdrawn from circulation for repair. An exhibit of the Caspian tern was destroyed by vandals in an elementary school.

Forty-two requests for individually selected portable exhibits or such specific study-kit material as birdskins, herbarium sheets, and rocks and fossils were received and filled. Thirty of the requests were from elementary-school teachers. Among the other borrowers were garden clubs, television studios, an Audubon club, and the American Red Cross.

## STAFF OF THE MUSEUM

Dr. Fred Eggan, who is Professor of Anthropology at the University of Chicago, was elected Research Associate in Ethnology by the Board of Trustees of the Museum. Appointments during the year were: Miss Joanne Evenson, Raymond Foundation; Theodore Hal-kin, Artist, Department of Anthropology; Mrs. Wanda Harrison, Secretary, Department of Zoology; Ferdinand Huysmans, Assistant, Photography; David A. Ross, Preparator, Harris Extension; Miss Susan Schanck, Artist-Preparator, Department of Anthropology, and Mrs. Patricia M. Williams, Assistant Editor, Scientific Publications.

Promotions during the year were: Phillip H. Lewis, from Associate Curator of Primitive Art to Curator; Dr. Edward J. Olsen, from Associate Curator of Mineralogy to Curator; Patricio Ponce de León, from Assistant in Botany to Assistant Curator of the Cryptogamic Herbarium; Dr. John B. Rinaldo, from Assistant Curator of Archaeology to Associate Curator; Miss Eleanor Scheffner, from Bookkeeper to Assistant Auditor; and Dr. Louis O. Williams, from Associate Curator of Central American Botany to Curator. Mrs. Dorothy Gibson, who will continue to serve as Secretary of the Department of Botany, was made an Assistant.

Dr. Roland W. Force, Curator of Oceanic Archaeology and Ethnology, resigned at the end of the year to become Director of the Bernice P. Bishop Museum in Honolulu. Other resignations during the year were: Mrs. Ruth Andris, Secretary, Department of Zoology; Kurt Bogen, Assistant, Photography; Walter Boyer, Ceramic Restorer, Department of Anthropology; Dr. Karl Koopman, Assistant Curator of Mammals; Mrs. Mary H. Ryan, Assistant, Memberships; and Dr. C. Earle Smith, Jr., Associate Curator of Vascular Plants. After many years of faithful service, three members of the staff retired: George Langford, Curator of Fossil Plants; Emil Sella, Curator of Exhibits in Botany; and Dominick Villa, Tanner.

The Curator Emeritus of Botany, Dr. B. E. Dahlgren, who was an authority on wax palms, died in December. He had been a valued member of the Museum staff since 1909, becoming Curator of Botany in 1935, a title that was changed the following year to Chief Curator of Botany. Dr. Fay-Cooper Cole, noted anthropologist, who was a Research Associate at the Museum and from 1904 until 1923 had been a member of the Museum staff, died early in September.

I record with regret also the death during the year of the following employees of the Museum: Robert Kelly, guard; Peter Letang, cabinetmaker; Francesco Marchese, janitor; and John Stryzik, pensioner (formerly a painter).

JAMES NELSON AND ANNA LOUISE RAYMOND  
FOUNDATION FOR PUBLIC SCHOOL AND  
CHILDREN'S LECTURES

This was another year of increasing use of the Museum by school groups. The greatest part of Raymond Foundation's work is with organized school groups, but not all the school groups that visit the Museum can be accommodated with tours and programs. Many school groups come independently and see the Museum under the supervision of their teachers. A total of 4,513 organized groups (including 220,816 persons) came to the Museum in 1961. (For those who were helped by Raymond Foundation see the tables on the following pages.)

One unusual school group merits special comment. A sixth-grade class of twenty-eight students from Bell School (Chicago public) came for a Workshop on Rocks and Minerals, after very special arrangements and preparations had been made by the teacher. Six members of this class were blind, and for them the teacher had all the questions and instructions set up in braille. These six students accomplished an unbelievable amount as they worked first with the hand specimens of rocks and minerals and then in the exhibition halls with the help of the sighted students, the teacher, and the Raymond Foundation staff member. The sightless students "saw" the specimens with their hands and fingers, read the questions in braille about these specimens, and then wrote their answers to the questions in braille.

Thirteen television programs for children were presented on the Lee Phillips Friendship Show (WBBM-TV), twelve by Mrs. Maryl Andre and one by Miss Edith Fleming. The first Soundtrek Special Lecture for use by high-school and junior-college classes in biology, "Classification of Plants and Animals" by Mrs. Andre and Miss Marie Svoboda, was taped and put on the Museum's Soundtrek radio-guide system late in December.

Two series of Museum Stories were given to children attending the spring and fall motion-picture programs on Saturday mornings: "Whales" by Mrs. Andre and "Trees" by Miss Svoboda. The Journey program for boys and girls continued with enthusiasm, and 1,544 Journeys were completed (family groups are finding this program interesting).

During the period in spring when so many school groups come to the Museum, Mrs. Elizabeth Best Deis, a former member of Raymond Foundation staff, assisted with tours and Mrs. Helen Christopher helped in meeting groups as they entered the Museum.



RAYMOND FOUNDATION  
ATTENDANCE TOTALS FOR 1961

1. WORK WITH CHILDREN

<i>A. School groups</i>	Groups	Individuals	Groups	Individuals
Chicago public . . . . .	347	12,484		
Chicago parochial . . . . .	36	1,422		
Chicago private . . . . .	30	824		
Total Chicago groups . . . . .	413	14,730		
Suburban public . . . . .	849	28,153		
Suburban parochial . . . . .	39	1,812		
Suburban private . . . . .	4	72		
Total suburban groups . . . . .	892	30,037		
Out-of-state groups . . . . .	99	3,666		
Total . . . . .			1,404	48,433
<i>B. Other groups</i>				
Special (clubs, etc.) . . . . .			73	3,327
<i>C. Individuals or groups</i>				
Journeys . . . . .		1,544		
Children's movies . . . . .	29	15,077		
Total . . . . .			29	16,621
TOTAL WORK WITH CHILDREN . . . . .			1,506	68,381
2. WORK WITH ADULTS				
Colleges . . . . .	16	454		
Public tours . . . . .	53	961		
Miscellaneous groups . . . . .	6	155		
Museum-film showings . . . . .	47	3,825		
TOTAL WORK WITH ADULTS . . . . .			122	5,395
3. MISCELLANEOUS PROGRAMS				
Television programs . . . . .			13	
GRAND TOTAL FOR RAYMOND FOUNDATION WORK . . . . .			1,641*	73,776

\* In addition to programs and tours, 805 of these groups (including 33,447 people) were shown movies or other visual materials to help them to a better understanding of the subject being studied.

# RAYMOND FOUNDATION SELECTED PROGRAMS WITH HIGH ATTENDANCE IN 1961

## 1. STUDY-UNIT PROGRAMS

Ancient Egypt ( <i>spring and fall</i> ) . . . . .	44 programs with 4,013 in attendance
Life in Ancient Rome ( <i>spring and fall</i> ) . . . . .	44 programs with 2,322 in attendance
Birds ( <i>spring</i> ) . . . . .	19 programs with 1,369 in attendance
Trees and Their Uses ( <i>spring and fall</i> ) . . . . .	18 programs with 1,193 in attendance
How Animals Adjust to Environment ( <i>fall</i> ) . . . . .	10 programs with 1,193 in attendance

## 2. WORKSHOPS

From Caveman to Civilization ( <i>spring</i> ) . . . . .	30 programs with 1,202 in attendance
Learning about Insects ( <i>fall</i> ) . . . . .	29 programs with 730 in attendance
Rocks and Minerals ( <i>fall</i> ) . . . . .	17 programs with 584 in attendance

## 3. INTERMEDIATE GIRL SCOUT NATURE-BADGE PROGRAMS

<i>February on Saturdays</i> (3) . . . . .	3 programs with 983 in attendance
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## 4. PROGRAMS FOR INDIVIDUALS OR FOR GROUPS

### A. HONOR DAYS FOR ORGANIZATIONS

Camp Fire Girl Day . . . . .	1,293 in attendance
Cub Scout Day . . . . .	714 in attendance
Girl Scout Day . . . . .	840 in attendance

### B. JOURNEYS

No. 24—Toys <i>winter of 1960-61 (January, February)</i> . . . . .	300
No. 25—Between the Tides <i>spring</i> . . . . .	372
No. 26—Dinosaur Land <i>summer</i> . . . . .	357
No. 27—Trees <i>fall</i> . . . . .	423
No. 28—Winter Fur 'n Feathers <i>winter of 1961-62 (December only)</i> . . . . .	92

#### *Awards presented in 1961*

#### *to participants in the Journey program:*

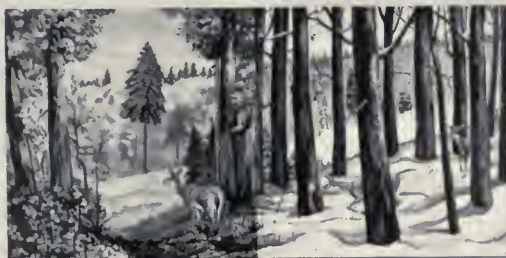
Travelers (completed 4 different Journeys) . . . . .	76
Adventurers (completed 8 different Journeys) . . . . .	37
Explorers (completed 12 different Journeys) . . . . .	15
Final Special Journey . . . . .	6
Museum Discoverers . . . . .	8
<i>Total Awards</i> . . . . .	142

FUR AND FEATHERS IN  
TEMPERATE CLIMATES



SUMMER

WINTER



WINTER JOURNEY  
OF  
RAYMOND FOUNDATION  
BEGAN  
WITH THE  
SPECIAL ZOOLOGY EXHIBIT

"FUR AND FEATHERS"

## VOLUNTEER WORKERS

The Museum thanks its volunteer workers for their help during the year. Some of them, designated as Research Associates and Associates, are included in the List of Staff at the beginning of this Report. Other volunteers are: Stanley Dvorak, Dr. MacDonald Fulton, Ellis Neiburger, and Joseph A. Pizzo.

## MUSEUM ATTENDANCE

Attendance in 1961 totaled 1,307,567, a gain of 63,193 over 1960 and of 232,141 over 1959. During the summer months the Museum was kept open until eight o'clock on four evenings a week, which permitted many persons employed during the day to take advantage of an evening in Grant Park that included a visit to the Museum and dinner in its cafeteria. The popularity of evening hours, which originally were established at the Museum as a supplement to the public concerts in Grant Park, soon demonstrated that this new service was highly acceptable to the public. Attendance by groups was a considerable factor in Museum attendance during the year, reaching a new daily record of 4,478 persons who attended in eighty-six groups on Friday, May 12, and a new monthly record of 62,064 persons in the total group-attendance in May.

## MEMBERS' NIGHT

On Friday evening, April twenty-eighth, 1,725 Members and their guests came to the Museum for our annual Members' Night. Feature of the evening was the opening of the new hall showing cultures of Polynesia and Micronesia (Hall F), in which many of the finest specimens from the famous Fuller Collection were presented for the first time to public view. Dr. Roland W. Force, Curator of Oceanic Archaeology and Ethnology, who had supervised the preparation of this outstanding exhibition hall, gave illustrated talks in a nearby room. As usual all workrooms and laboratories at the Museum were open to our visitors. In addition, an effort was made to have interesting displays in widely scattered parts of the building so that crowds would not concentrate in any one area. Our visitors were uniformly enthusiastic, and many of them expressed regret that there was not time to see everything. It is hoped that repeated visits to the Museum will allow them to accomplish this objective.



## MEMBERSHIPS

Again in 1961 the number of Members of the Museum increased. A net gain of 411 brought the total to 7,685, which included 326 new Associate Members. The substantial contribution made by our Annual and Sustaining Members to our operating funds and the increase made by our Life and Associate Members in our endowment funds are particularly gratifying as an expression of approval of the work of the Museum. (Names of Contributors elected in 1961 by the Board of Trustees are given on page 25, and complete membership lists begin on page 107.)

It is with deep regret that I record the death of five distinguished Members of the Museum whose service to the Museum has been notable: John Borden, a Corporate Member and former Trustee; Abbé Henri Breuil, a Corresponding Member; Captain A. W. F. Fuller, a Benefactor, Patron, and Corporate Member; Sterling Morton, a Contributor; and Dr. Jeanne S. Schwengel, a Contributor.

## SPECIAL EXHIBITS

"Prehistoric Art of the Libyan Sahara," a special exhibit of reproductions of rock paintings and drawings, was presented during December. The records of an ancient civilization dating from 6000 B.C. to about 2000 B.C. were discovered by Dr. Fabrizio Mori, who led four Italian expeditions to Libya between 1955 and 1959. The exhibition was shown through the courtesy of the Italian Institute of Culture and was made available by the American Federation of Arts.

"Birds of Greenland," an exhibit of fifty-two watercolors by the Danish artist Gitz-Johansen, was displayed from October 1 to October 22 through the courtesy of the American Scandinavian Foundation. In connection with the opening of the exhibition, a concert of Scandinavian music was given by the Chicago Chamber Orchestra in James Simpson Theatre on September 30 and a motion-picture program dealing with Greenland was presented on October 1.

"Temple Rubbings from Thailand" was shown from October 27 through November 26. These rubbings in oil colors were made at the Temple of the Sleeping Buddha by Mrs. Vadna Gearhart of Evanston, Illinois, and were lent by Mrs. Gearhart for the exhibit.

Annual showings included the Sixteenth International Exhibition of Nature Photography in co-operation with the Nature Camera Club of Chicago in February, the exhibit in May of work done in

our halls by students of the Junior School of the Art Institute of Chicago, and in June the Amateur Handcrafted Gem and Jewelry Competitive Exhibition sponsored by the Chicago Lapidary Club.

## LECTURE PROGRAMS FOR ADULTS

The 115th and 116th free lecture series for adults were presented at the Museum on Saturday afternoons during March, April, October, and November. These lectures are made possible through the foundation established by the late Edward E. Ayer, first President of the Museum. Attendance at the seventeen lectures totaled 16,302 persons. Programs were varied in content, and a special effort was made to present material that was in the news. Audience reaction continued to be extremely favorable.

## EXPEDITIONS AND FIELD TRIPS IN 1961

The Museum conducted twelve expeditions and field trips in 1961.

DEPARTMENT OF ANTHROPOLOGY—*Great Lakes Area Archaeological Field Trips* (George I. Quimby, Curator of North American Archaeology and Ethnology, see page 38); *Southwest Archaeological Expedition* (Dr. Paul S. Martin, Chief Curator of Anthropology, see page 37)

DEPARTMENT OF BOTANY—*Northwest Territories Botanical Expedition 1961-62* (Dr. John W. Thieret, Curator of Economic Botany, see page 44)

DEPARTMENT OF GEOLOGY—*Central America Volcanological Field Trip* (Dr. Sharat K. Roy, Chief Curator of Geology, see page 50); *Quebec Paleontological Field Trip* (Dr. Robert H. Denison, Curator of Fossil Fishes, see page 49); *Vermont Geological Field Trip* (Bertram G. Woodland, Associate Curator of Petrology, see page 51)

DEPARTMENT OF ZOOLOGY—*Africa Zoological Field Trip, 1961-62* (Melvin A. Traylor, Jr., Associate Curator of Birds, see page 56); *Arizona Zoological Field Trip* (Dr. Alan Solem, Curator of Lower Invertebrates, see page 55); *Florida Zoological Field Trip* (Dr. Robert F. Inger, Curator of Amphibians and Reptiles, see page 55); *Guiana Zoological Expedition, 1960-61* (Harry A. Beatty, see page 55); *Pacific Zoological Field Trip, 1961-62* (Dr. Solem, see page 55); *Surinam Zoological Field Trip, 1961-62* (Philip Hershkovitz, Curator of Mammals, see page 55)

DEPARTMENT OF ANTHROPOLOGY

DEPARTMENT OF BOTANY

DEPARTMENT OF GEOLOGY

DEPARTMENT OF ZOOLOGY

16-1234

TOLTEC  
EFFIGY  
VASE

MEXICO  
A.D. 1000



## Department of Anthropology

### Research and Expeditions

The Southwest Archaeological Expedition completed another season of research in Arizona under the leadership of Chief Curator Paul S. Martin (see page 34). A grant from the National Science Foundation (for research in cultural stability and development of traditions in the Upper Little Colorado River Drainage) made it possible to undertake excavations near Snowflake, Arizona, to continue the paleoecological studies of the previous season, and to continue the archaeological reconnaissance. The Museum is grateful for this assistance. James R. Carter, C. E. Gurley, Mr. and Mrs. Maxwell Hahn, Charles E. Keney, M.D., and Judd Sackheim also contributed toward the funds of the expedition, and grateful acknowledgment of their interest is made here.

A pueblo located on the ranch of James Carter was partly excavated. A large kiva (one of two) and twenty rooms were finished. Routine trenching of the trash-mound produced thirty burials. From them and from the rooms more than a hundred whole or restorable pots were found. Fifty-four sites were discovered on the reconnaissance. Well-preserved pollen was obtained from several archaeological sites, from the banks of a deep arroyo, and from sediments in an ancient lake-bed. These will, when analyzed, indicate the climate of the area for the past five thousand years and some of the foods gathered or produced by the inhabitants. David McQueen, Antioch College student, classified pottery and catalogued artifacts.

Dr. Donald Collier, Curator of South American Archaeology and Ethnology, continued analysis of archaeological materials from Casma Valley, Peru, that had been gathered in 1956. Fifty sites were dated by means of pottery seriation techniques and a sequence of architectural types was worked out. The time-span covered is from about 1000 B.C. to A.D. 1550, shortly after the Spanish conquest. It was found that additional ceramic and architectural data were needed from two crucial groups of sites dating from the Formative period, about 600-400 B.C. Dr. Duccio Bonavia, of the University of San Marcos, Lima, kindly made a trip to Casma to collect the needed data, correct the site maps, and make photographs. He was ably assisted by Felix Caycho Quispe, of the University of San Marcos Museum. Donald E. Thompson, who was Curator Collier's assistant on the expedition in 1956, will be co-author of the final report on the Casma research.



George I. Quimby, Curator of North American Archaeology and Ethnology, continued investigations of prehistory and changing environments in the Great Lakes region. A grant-in-aid from the American Council of Learned Societies made it possible for him to undertake special studies of Indian cultures of the period just before and just after the arrival of French explorers and missionaries, thus considerably extending the scope of the Great Lakes research program. The Museum is grateful for this assistance.

During the year field trips were made to various sites on the south shore of Lake Superior and the northern half of the Lake Michigan basin (see page 34). Surface collections of artifacts were obtained and test trenches were dug in key sites. As part of this aspect of Great Lakes research Curator Quimby, assisted by James R. Getz, made an archaeological survey of the Garden and Stonington peninsulas in upper Michigan. Great Lakes research dealing with protohistoric and historic Indian cultures from about A.D. 1400 to 1750 consisted primarily of study trips to examine relevant collections of late-period artifacts owned by museums and private individuals. Pertinent collections were recorded and photographed in color for reference.

Dr. Roland W. Force, Curator of Oceanic Archaeology and Ethnology, devoted a part of the year to an analysis of kinship and social organization in the Palau Islands of Micronesia. A portion of the analysis was carried out with the aid of the resources of the library of Bernice P. Bishop Museum in Honolulu. This research, which produced several short articles, was supported by Chicago Natural History Museum and a grant-in-aid from the Social Science Research Council. The final report will supply information on both the contemporary and the aboriginal way of life in Palau, including sections on kinship terminology, status hierarchy in sociopolitical life, the exchange system, kin and local groups, settlement patterns, and village organization.

Dr. Kenneth Starr, Curator of Asiatic Archaeology and Ethnology, continued studies in the two main areas of his interest. These areas are the prehistory of eastern Asia and Chinese ink-rubbings.

Phillip H. Lewis, Curator of Primitive Art, continued his research into further definition of primitive art. Going beyond the social definition of primitive art (see page 41), the art itself, rather than its social context, was considered in its aspects of form and meaning and contrasted with the art of civilized societies. Generally speaking, art form in primitive societies (mainly because of the unified structure of primitive societies) has clearer meanings than in the more complex civilized societies.

During the first months of the year Associate Curator Rinaldo joined with Chief Curator Martin in preparation of a report on the excavation of a great kiva and several small prehistoric Indian villages in eastern Arizona. He made an analysis of architectural data and stone, bone, and baked-clay artifacts, particularly the significant sacred stone-image found in the great kiva, and prepared maps. From June through September he directed excavations for the Southwest Archaeological Expedition (see page 34), and after his return he continued the analysis of data begun in the field.

### Care of the Collections—Anthropology

The rearrangement of the Central and South American collections in Room 35 was completed by Custodian of Collections Allen S. Liss with the help of Owen Delman, temporary assistant, who sorted and classified several thousand clay figurines from the Valley of Mexico. This work led to the reassembling of a rare Toltec effigy vessel, the two parts of which had been acquired by the Museum from different sources in 1905 and 1923 (see the picture of this object on page 36).

In the Division of Asiatic Archaeology and Ethnology work was begun on a new storage area to house the Museum's collections of ethnological materials from China and Tibet. This facility is being built in connection with the reinstallation of the exhibition galleries devoted to the display of cultural materials representing life in China and Tibet during recent centuries.

Dr. Hoshien Tchen, Consultant, East Asian Collection, continued his work of cataloguing the Museum's vast collection of Chinese ink-rubbings. This highly specialized work included translation of inscriptions, identification of pictorial elements, and addition of explanatory notes. This year Dr. Tchen particularly has directed his efforts toward completing the catalogue of rubbings taken (1) of the reliefs of the tomb of Confucius at Ch'ü-fu in Shantung Province and (2) of the stone monuments assembled in the famous *Pei-lin*, located at the Temple of Confucius in the historically important city of Hsi-an in Shensi Province [the *Pei-lin*, or "Stone Forest," is a museum of stone tablets that was established in the *Yüan-yü* reign period (A.D. 1086–1093) of the Sung dynasty and represents the most famous single collection of historically and calligraphically important stone inscriptions in all of China]. Dr. Tchen's continuing work in the cataloguing of the Museum's collection of ink-rubbings is of great significance.

## Accessions—Anthropology

The 116 whole or restorable black-on-white pottery vessels that were excavated by the Southwest Archaeological Expedition in 1961 represent the first documented collection from the area in and around Snowflake, Arizona. Included in this collection is an unusually fine series of shell, bone, and stone artifacts that illustrate hitherto unknown developments in Hopi culture of the eleventh and twelfth centuries. Interesting and useful collections of ethnological material from the Indians of eastern Bolivia and central Brazil were purchased from Borys Malkin, who collected them in 1960–61.

The most significant acquisition of the year in the Oceanic collections is a rare whalebone weapon, a gift from Captain and Mrs. A. W. F. Fuller of London. This weapon, which is called a *hoeroa* by the Maori who used such weapons in intertribal warfare many years ago and is one of the few in museum collections, was once in the collection of Sir Frederick Selby Chance, former Member of Parliament.

Added to the collections is the plaster cast of an Egyptian statuette that was received in exchange from Ny Carlsberg Glyptotek of Copenhagen. The original of the cast is a seated figure, complete except for the head. The missing head has been in the possession of Chicago Natural History Museum since 1908 and now, with the exchange of casts, each institution has the whole piece, even though only part of each statuette is original.

## Exhibits—Anthropology

The renovation of exhibits in the Hall of Ancient Chinese civilization (George T. and Frances Gaylord Smith Hall) was continued by Custodian Liss under the supervision of Curator Starr, with the close co-operation of the Division of Maintenance and the help of Miss Mary Hogquist (Museum Fellow), David McQueen, James D. Hawley, and Keir Jorgensen (Antioch College students), and Donald Adler (assistant). An extensive program for the reinstallation of the cultural materials representing modern China and Tibet also was initiated. Associated with Curator Starr in this program and contributing markedly to its success is Theodore Halkin, Artist.

Seventeen new exhibits were installed in Hall F (Peoples of Polynesia and Micronesia) before the formal opening of the new hall, which took place on Members' Night (New Zealand—4, Fiji—2, Tonga—1, Samoa—2, Gilberts—2, Marshalls—1, Carolines—1, Pa-



laus—2, and Hawaii—2). Special features of the new hall are a mural map of the culture areas of the Pacific, a collection of enlarged photographs of outstanding specimens, and a life-group inside the Maori council house. Later in the year an exhibit was prepared for Hall A (Melanesia) in which the unique and beautiful shell-inlay work of the Solomon Islands was emphasized.

“Primitive Artists Look at Civilization,” which was the Museum’s featured exhibit for July, is the first aspect of the Hall of Primitive Art (Hall 2, Edward E. and Emma B. Ayer Hall) to be completed. Exhibits illustrating the major theme of the hall, “The Human Image in Primitive Art,” are not yet completed. Both themes deal with images of man as conceived by primitive artists: those done within the context of primitive social life and those done in primitive societies in change (societies with Europeans and European influences present).

Artist Gustaf Dalstrom, Artist-Preparator Susan Schanck, Dioramist Alfred Lee Rowell, and Preparator Walter C. Reese helped in the exhibition program.

BURIAL WITH MORTUARY POTTERY FOUND IN REFUSE



ON JAMES R. CARTER RANCH, SNOWFLAKE, ARIZONA



# Department of Botany

## Research and Expeditions

Dr. Margery C. Carlson, Associate in Botany, continued study of plants that she collected in Mexico in 1960, making identifications and distributing certain groups to specialists. Dr. Earl E. Sherff, Research Associate in Systematic Botany, determined collections of Hawaiian plants belonging to groups in which he has specialized. Dr. Rogers McVaugh, Curator of Vascular Plants at the University of Michigan and Research Associate on the staff of the Museum, spent a period in residence in Chicago and also visited major herbaria in other cities in order to prepare his contribution on the Myrtaceae for the *Flora of Guatemala*.

Curator Emeritus Dr. B. E. Dahlgren (since deceased) relinquished to Dr. Sidney F. Glassman of the University of Illinois (Navy Pier, Chicago) the whole responsibility of preparing the concluding report on the palm genus *Copernicia*, the first part of which was published during the year in *Gentes Herbarum*. J. Francis Macbride, Curator of Peruvian Botany, worked on the Composite family of plants for the *Flora of Peru*. Some tribes of the Compositae are being prepared by collaborators.

At the invitation of Armour Research Foundation, Dr. Patricio Ponce de León, Assistant Curator of the Cryptogamic Herbarium, accompanied Dr. Ervin Hawrylewicz on a short field trip to Devil's Lake, Wisconsin, as consultant to the Foundation and to collect cryptogamic plants for the Museum (the Armour Research project is concerned with the viability of lower plants under simulated conditions presumed to exist on the planet Mars). Dr. Ponce de León continued studies of the genus *Polyporus* in preparation for a monograph on these fungi. He also cultured and isolated various fungi obtained from specimens of luminescent wood in an effort to determine the agent and critical factors.

Dr. C. Earle Smith, Jr., Associate Curator of Vascular Plants, continued preparation of a critical catalogue of the Muhlenberg Herbarium. He made a short study trip to the United States National Herbarium in connection with his revision of the Meliaceae of Panama, for which the manuscript was submitted to Missouri Botanical Garden for publication in its *Flora of Panama*. He served as Consulting Botanist for the joint Archaeological-Botanical Tehuacán Project undertaken by staff members of the Royal Museum of Canada and sponsored by the R. S. Peabody Founda-

tion and spent July and part of August collecting in the Tehuacán area of Mexico (see illustration on page 45).

Dr. John W. Thieret, Curator of Economic Botany, conducted an expedition to the Northwest Territories of Canada (see page 34) with the aid of funds from a grant awarded in 1960 by the National Science Foundation for the purpose of a vegetational survey of the Fort Providence–Yellowknife Highway area at the western end of Great Slave Lake. He was accompanied by Robert J. Reich, of Indiana State Teachers College, who assisted in the collection of plant specimens.

Dr. Louis O. Williams, Curator of Central American Botany, completed the families Dilleniaceae through Begoniaceae for the *Flora of Guatemala* (see page 78) and at the end of the year was well along with manuscript for the following families, Cactaceae through Combretaceae. Corollary to this has been the publication of new genera, species, and combinations under the title *Tropical American Plants, II* (see page 78). He made brief study-trips to the United States National Herbarium and Gray Herbarium of Harvard University in connection with his work. The completion of the *Flora of Guatemala* is being aided with funds granted in 1961 by the National Science Foundation.

Miss Edith M. Vincent, Research Librarian, located botanical data for staff members, correspondents, and workers from other institutions as well as handled most routine matters of library operation for the department.

### Care of the Collections—Botany

The collection of pollen slides, accumulated from various sources in recent years, was organized with the assistance of Miss Margaret Archibald, Antioch College student. Miss Mia Buehr and Miss Lynn Whitman, Antioch College students, sterilized and transferred fruit collections stored in containers subject to insect infestation to glass jars or plastic bags capable of retaining a fumigant. David Frodin (temporary assistant) completed cutting to standard herbarium sizes leaves and spadices of palms that had been collected by Curator Emeritus Dahlgren in connection with his studies of the wax palm *Copernicia*. Mrs. Dorothy Gibson, Departmental Secretary and Assistant, continued her preparation of slides of floral dissections as an aid to identification of the numerous tropical American plants received from various collectors in the past and which remain undetermined even as to family.



CACTUS  
NEAR  
COXCATLAN  
IN  
MEXICO



PHOTOGRAPH BY  
DR. C. EARLE SMITH, JR.

Assistant Curator Ponce de León completed checking, indexing, and reorganizing into phylogenetic arrangement all of the cryptogamic herbarium and initiated the transfer of specimens to color-coded folders to indicate geographic location (in the latter project he was assisted by Antioch College students Miss Barbara Agate and Miss Buehr). He completed identification of all Steyermark collections of Missouri fungi, lichens, and hepatics, identified and completed the nomenclatural revision (into current synonymy) of all specimens of *Polyporus* in this herbarium, completed the annotation and cross-indexing to current nomenclature of all genera of cryptogams, and supervised the preparation (by Miss Archibald) of a complete card index for all genera.

Mrs. Lenore Warner began an alphabetical index of type-photographs in families and genera to supplement and cross-reference the numerical indices completed last year. A total of 5,266 type-photographs was sent to other institutions in continuation of exchange, 779 were sold, and 300 new negatives were added to the files. A total of 28,386 specimens was mounted and added to the herbarium of vascular plants. Plants were mounted by Mrs. Karoline Benyovszky, Almon Cooley, Peter Feldmann, David Frodin, and Mrs. Jennie Pletinckx, and by Matthew Richards, Miss Hyo Young Chung, Miss Linda Dybas, Miss Archibald, and other student assistants. Robert Yule completed a number of tasks connected with the operation of the Herbarium and other sections of the department. Mrs. Pletinckx aided in sorting and labeling the collections received in 1960 from Holly Reed Bennett so that duplicates may be used for exchange purposes.

### Accessions—Botany

Among the largest and most valuable collections received through exchange were 4,656 specimens of vascular plants from the Conservatoire et Jardin Botaniques, Geneva, Switzerland. These specimens had been selected with the assistance of Curator Macbride when he was in Geneva a number of years ago in connection with the project to photograph type-specimens of American plants in European herbaria. The 2,837 plants of the Tehuacán area, Mexico, collected by Associate Curator Smith while he was with the R. S. Peabody Foundation's Archaeological-Botanical Tehuacán Project (see page 43), constitute a botanical survey of a valley from which there is promise of much new information on the early development of food plants and primitive cultures. Holly Reed Bennett again

presented the largest gift, 2,946 plants that he collected in the United States and identified. Other significant acquisitions were 331 plants of Mexico from Dr. U. T. Waterfall and 360 plants of North Pakistan from Professor O. Polunin, acquired by purchase, and 841 plants of South Korea from the University of Michigan, acquired by exchange.

## Exhibits—Botany

Remodeling the Hall of Useful Plants (Hall 28) was begun early in the year with bricking-in court windows and constructing framework to support display cases of the style long used for botanical exhibition (but without the bases containing storage cabinets). This work was more than half completed by the Division of Maintenance at the end of the year. Completed for installation in the new setting were exhibits of plant dyes and tannins, resins, and leaf fibers (Manila hemp and agave) and several models to be included in other exhibits. Curator of Exhibits Emil Sella, Technician Frank Boryca, Preparator Walter Huebner, Artist Robert Anderson, Artist-Preparator Samuel H. Grove, Jr., and Curator Thieret effectively co-ordinated their separate skills and knowledge in the planning and construction of exhibits.

MODEL OF BRANCH OF ENGLISH WALNUT



MADE IN PLANT REPRODUCTION LABORATORY

THIS LARGE SHARK, FOUND IN LOGAN QUARRY, INDIANA, IN 1957



WAS BURIED SOME 240 MILLION YEARS AGO



# Department of Geology

## Research and Expeditions

Dr. Rainer Zangerl, Curator of Fossil Reptiles, and Dr. Eugene S. Richardson, Jr., Curator of Fossil Invertebrates, spent most of the year preparing a manuscript on the paleoecology of two interesting Pennsylvanian black shales of western Indiana. Studies of these shales have brought forward a wealth of striking evidence concerning the nature of the environment of deposition at the time of their formation some 250 million years ago. It has thus been possible to determine in far greater detail than anticipated the physiographic setting, the rate of deposition, and the factors responsible for the vast accumulation of vertebrate skeletons at the sites of Mecca and Logan quarries (see Annual Report 1960, page 61). The systematic study of the extensive collection of fossils made at these localities will be undertaken separately.

Dr. Robert H. Denison, Curator of Fossil Fishes, has continued his study of the Cyathaspididae, a family of primitive jawless vertebrates, and has completed a description of a collection of Silurian cyathaspids from the Yukon obtained by oil-company geologists. In addition, he has studied Early Devonian lungfishes from Wyoming and the histology of early hard tissues. During parts of July and August he conducted a field trip to Escuminac Bay in Quebec (see page 34), where he collected in the Upper Devonian rocks and obtained a representative series of fishes.

George Langford, Curator of Fossil Plants, spent the greater part of the year studying the Museum's Coal Age and Mesozoic plants and rearranging the storage specimens to improve their accessibility. He also spent considerable time in correcting and revising specimen labels.

As a part of his study of the fossil fauna of the Washakie formation, William D. Turnbull, Assistant Curator of Fossil Mammals, worked on the fossil rodents and ungulates from that formation. He also continued his study of the adaptive types of mammalian masticatory apparatus, giving special attention to the analysis of the functional mechanisms. His field activities were limited to a week of collecting in western Colorado (see page 51).

Dr. Edward J. Olsen, Curator of Mineralogy, completed his work on the statistical distribution of magnesium and iron in the minerals olivine and orthopyroxene from world occurrences. He developed a technique to use the X-ray fluorescence unit for quantitative analy-

ses of iron, cobalt, and nickel and effectively used it to analyze partially an uncommon nickel-cobalt bearing lazulite from Baraboo, Wisconsin. He also became actively interested in the study of meteorites and did preliminary work on the identification of constituent minerals in the Weekeroo Station, La Porte, and Mount Joy meteorites by X-ray diffraction. Because of the lack of appropriate literature on the subject, some of the X-ray diffraction data had to be initially calculated.

Dr. Sharat K. Roy, Chief Curator of Geology, spent four months in the field in the Central American republics of Guatemala, El Salvador, Nicaragua, and Costa Rica, working along the volcanic belt that parallels the Pacific Ocean (see page 34). The purpose of the trip, which was taken in connection with the forthcoming monograph "The Principal Volcanoes of Central America," was to revisit individual volcanoes for restudy of each with emphasis on checking the data collected on previous field trips and also to take new photographs to replace old ones of certain volcanoes whose appearance had been noticeably changed by recent eruptions.

Much was accomplished on this trip but not everything that had been planned. Five volcanoes, Pacaya in Guatemala and four, Concepcion, Monmotombo, Telica, and Coseguinea, in Nicaragua, which were not hitherto reached for lack of transportation or only sketchily observed from the air, were studied in detail, and samples from recent lava flows were collected for chemical and petrographic analyses. In El Salvador, Volcan Izalco, which, now in a dormant stage, is marked only by fumarolic activity, was again climbed and the changes that had taken place in its crater and flanks were carefully observed.

We wish to thank again the Director and other members of the staff of Instituto Tropical and of the Geological Survey of San Salvador for their hearty co-operation and for the use of facilities to carry on field work and laboratory studies. Our grateful appreciation for rendering cordial and most effective aid to facilitate field work in Nicaragua is also offered to Dr. Juan Jose Lugo Marengo, Ministro de Economia, and Dr. Roberto Solórzano Marin and to Dr. Adolfo J. Bengoechea of the National Geological Survey of Nicaragua. But for the help given by these officials it would not have been possible to accomplish even a part of the work done in Nicaragua.

In the field of research, Chief Curator Roy (with J. J. Glass and E. P. Henderson) completed the paper "The Walters Meteorite," and another paper "Spheroids in Volcanic Ash" was completed also, except for photographic and editorial details. He also made steady

progress on two monographs, one on volcanoes (to which reference has been made) and the other on chondrules in chondritic meteorites. A paper (with E. R. DuFresne) describing a new meteoric mineral, an anhydrous magnesium phosphate hitherto unobserved in nature, was published (see page 84). The mineral was found in the Springwater meteorite, a pallasite, from Springwater, Saskatchewan, Canada. It has been named farringtonite in honor of the late Dr. Oliver Cummings Farrington, the first Chief Curator of the Museum's Department of Geology and a leading student of meteoritics of his time (see illustration on page 86).

Bertram G. Woodland, Associate Curator of Petrology, completed a study on the trend of metamorphism of rocks from an area in north-east Vermont. He also made chemical analyses of four basic dike rocks from the same area and completed a report on the petrology of the dike suite to which the analyzed rocks belong. A quartz fabric analysis of some folded quartz veins in schist is in progress. He spent five weeks in the field in central Vermont studying the minor structures of metamorphic rocks and collecting specimens for detailed examination of their structural geometry (see page 34). He also spent a week in the field in Parke County, Indiana, with Curator Zangerl and Curator Richardson to familiarize himself with the stratigraphy of the area. During his stay he collected some fine specimens of cone-in-cone in limestone for the study collection.

Earlier in the year Patrick J. Carlone and Miss Lynn Whitman, Antioch College students, rendered able assistance to Curator Olsen and Associate Curator Woodland in the chemical and mineralogical laboratories. Later, during October through December, the excellent services of Miss Laura N. Stone, another Antioch College student, were used by Curator Olsen in reorganizing and inventorying mineral specimens.

### Accessions—Geology

Our collections of Cretaceous fishes from the Niobrara chalk were increased by the purchase through the Maurice L. Richardson Paleontological Fund of excellent specimens of *Pachyrhizodus*, *Albula*, *Apsopelix*, and *Saurodon* from Marion C. Bonner. Significant additions to the fossil-mammal and fossil-bird collections were specimens from the DeBeque formation of Colorado (some were donated by Al Look and Miss Sue Hill and some were collected by Assistant Curator Turnbull—eight very poorly known orders are represented by these specimens).

Francis Tully presented twenty specimens of interesting and entirely unknown segmented fossil invertebrates found in concretions in the abandoned strip mines of Will County, Illinois. Dr. Hans Hess, of Switzerland, who visited the Museum in June, presented eight beautifully preserved specimens of Jurassic echinoderms from France and Switzerland.

Mrs. Cyril L. Ward generously donated five beautiful black opals and fire opals set in gold mounts with diamonds and rubies. These exquisite stones are among the best of our opal collections displayed in H. N. Higinbotham Hall (Hall 31, Gems and Jewels). By exchange with the Mineralogical and Geological Museum of Copenhagen University an interesting suite of alkalic igneous rocks from Ilimaussag, Greenland, was added to the rock collection.

### Care of the Collections—Geology

David Techter, Assistant, catalogued the major portion of the extensive collection of fossils obtained from the Mecca and Logan quarries of Parke County, Indiana (see page 49), and at the end of the year a total of 725 specimens of fossil fish, representing the choicest material, had been catalogued. Several hundred additional specimens were under further study to determine which of them should be catalogued and added to the permanent collection. Orville L. Gilpin, Chief Preparator, completed the painstaking preparation of a huge shark (eight and a half feet long in its present state) from the Logan Quarry. This remarkable specimen is a nearly complete skeleton and, because it is the only one that has ever been recovered and prepared, it adds much to the interest of Coal Age fauna (see illustration on page 48).

The fossil invertebrate collections also received due attention. Mrs. Maria Weiss, of the University of Chicago, working on a Museum grant, has identified and relabeled numerous Paleozoic crinoids and brachiopods. Likewise, Chi-wei Pan, of the Museum staff, identified and catalogued several hundred Cenozoic invertebrates from the extensive Nelson Collection.

Approximately twenty cases of minerals in the study collection were completely reorganized and inventoried by Curator Olsen. When the work is completed, following the method of reorganization adopted, the collection will be more compact and there will be a substantial gain in storage space. The new arrangement will enable one to determine all mineral species on hand, the exact location of each, and the quality and extent of the collection.



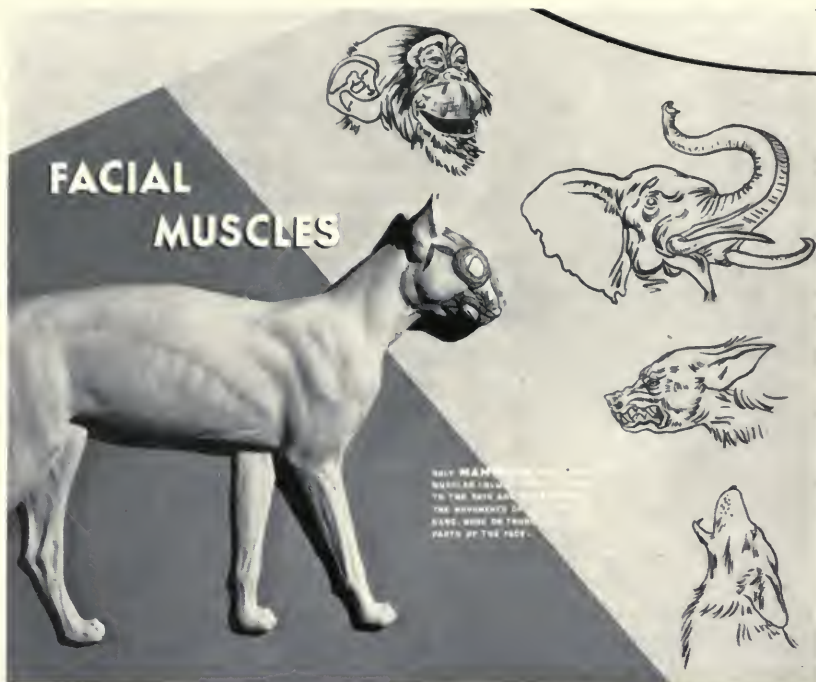
## Exhibits—Geology

Early in the year one of the exhibits displaying fossil horses in Ernest R. Graham Hall (Hall 38) was revised by the addition of a newly mounted skeleton (cast) of the Eocene horse *Hyracotherium*. The mount was constructed by Preparator Ronald J. Lambert, and Mrs. Maidi Wiebe Leibhardt, Departmental Artist, painted the restoration. Throughout the year reinstallation of the Hall of Economic Geology (Hall 36) was continued. Ten exhibits were dismantled and reinstalled using cut-out-letter labels. Descriptions of various ores that have increased in economic importance within the past decade were brought up to date.

The months of June, July, and August were devoted to renovation and reinstallation of the Hall of Gems and Jewels (Hall 31, H. N. Higinbotham Hall). The addition of new labels and new pads and the display of several new gems that had been acquired by the Museum in recent years noticeably improved the appearance of the hall.

Two new exhibits were installed in Clarence Buckingham Hall (Hall 35, Moon, Meteorites, and Minerals). One of these graphically illustrates the Hamlet meteorite, which struck the home of Mr. and Mrs. A. C. Hall of Hamlet, Indiana, on October 13, 1959. Included in this exhibit are fragments of the roof of the house damaged by the meteorite, diagrams showing the direction of fall of the meteorite computed from information given by eye witnesses of the fall, and photographs of the locale of the fall. The other exhibit represents one of the largest individuals (845 pounds) of the Canyon Diablo meteorite shower, Canyon Diablo, Arizona.

The exhibition program was carried on by Harry E. Changnon, Curator of Exhibits, in co-operation with Associate Curator Woodland, Curator Olsen, Assistant Henry Horback, and Preparator Henry U. Taylor. Illustrations were competently executed by Mrs. Maidi Wiebe Leibhardt.



PART OF  
A NEW EXHIBIT  
DEFINING  
MAMMALS

# Department of Zoology

## Research and Expeditions

In southern Asia, the Philippines, Africa, South America, Central America, North America, and the Hawaiian Islands, our staff members were afield, making collections and studying their specialties. In addition, we had one expedition in South America by a non-staff member.

**DUTCH GUIANA (SURINAM).** Harry A. Beatty, of New York, who started field work in Surinam in 1960, continued collecting birds and mammals through the year (see page 34). In November Curator Philip Herskovitz began a stay of several months in Surinam (see page 34) to get specimens of mammals from that part of the continent to use as comparative material in his revisions of South American mammals (his field work is financed by a National Science Foundation grant). Accompanying Curator Herskovitz was Dr. Jack Fooden, postdoctoral fellow, supported by a grant from the National Institute of Health.

**PANAMA.** Curator Rupert L. Wenzel, in connection with his study of the Streblidae (bat flies) of Panama, made a short study and field trip there in October to observe bats and their parasite flies and to take part in some collecting.

**NORTH AMERICA.** Associate Curator Henry S. Dybas made short field trips to Virginia and southern Indiana to collect samples of soil to process in insect funnels for the minute insects in them and also to survey localities for possible studies in 1962 and 1963 of periodical cicada emergence.

Curator Robert F. Inger spent about three weeks in February and March in central Florida, studying and recording frog voices (see page 34). This work will correlate with similar work he has done in Africa and Borneo.

Curator Alan Solem made a field trip in Arizona (see page 34) to obtain more material for a study of evolutionary changes in isolated populations of snails, of which fifty-year-old material is available. He was again fortunate in being accompanied by the veteran collector, Munroe L. Walton of Glendale, California.

**PACIFIC.** In August Curator Solem, accompanied by Mrs. Solem as assistant, started on a study trip (to continue through 1962) that will take them to New Zealand, Australia, and Europe for the purpose of examining landsnails of the Pacific islands in various museums (see page 34). The first stop was Honolulu, where they studied the

splendid material in Bernice P. Bishop Museum. Curator Solem was able also to do some field work in Hawaii. He is financed in part by a grant from the National Science Foundation.

Curator Loren P. Woods spent six weeks in Hawaii as a member of a marine fish-collecting expedition sponsored by the John G. Shedd Aquarium of Chicago.

PHILIPPINE ISLANDS. Associate D. S. Rabor this year utilized his vacation period from Silliman University in the Philippines to make a much-needed collection of birds from southern Luzon.

NEPAL. Field Associate Robert L. Fleming continued his association with the World Book Encyclopedia Scientific Expedition to the Himalayas (see Annual Report 1960, page 24). He collected birds and mammals chiefly at high altitudes.

EGYPT. The work of Research Associate Harry Hoogstraal in Egypt continued to yield specimens of birds and mammals for our collections.

SOUTHERN AFRICA. Associate Curator Melvin A. Traylor, Jr., supported by a National Science Foundation grant, was unable, because of political disturbances, to follow his original plan of working in Angola and, instead, has outlined work in adjacent territories of the Rhodesias and Southwest Africa (see page 34). He started field operations early in October and will continue work into 1962.

DIVISION OF MAMMALS. The first draft of the checklist of South American mammals being prepared by Curator Hershkovitz (aided by a grant from the National Science Foundation) was virtually completed during the year and the section on whales was put into final form for publication. A systematic revision of the South American phyllotine group of rodents was brought up to date for publication, and studies were continued on other difficult groups of South American mammals. Assistant Curator Karl Koopman continued his studies of the bats of northern Africa.

DIVISION OF BIRDS. Curator Emmet R. Blake has continued taxonomic studies of South American birds with special reference to recently received collections from Surinam, Colombia, and Argentina. He has also brought up to date the section of the family of Icterid blackbirds for Peters' *Checklist of Birds of the World* and has seen proof of the section on American crows and jays.

Associate Curator Traylor (aided by a National Science Foundation grant) has been continuing the preparation of a checklist of birds of Angola. He has also continued studies of the migratory birds of Egypt (in connection with the work of Research Associate Hoogstraal on the vectors of arthropod-borne diseases) and of birds of Nepal (in connection with Field Associate Fleming's fieldwork there).



Chief Curator Austin L. Rand, in collaboration with Dr. E. Thomas Gilliard of the American Museum of Natural History, has completed about half of the manuscript for the handbook of birds of New Guinea that was begun last year. He continued taxonomic studies of birds of the Philippines and, with Mrs. Rheua Rand, published *A Midwestern Almanac*, a general book (see page 85). Associate Ellen T. Smith spent part of her time investigating the records of early days in Chicago for material on birds.

**DIVISION OF AMPHIBIANS AND REPTILES.** Curator Inger, who continued his studies of reptiles and amphibians of Borneo (supported in part by a grant from the National Science Foundation) and of the amphibians of the Parc National de la Garamba (Congo), described several new species of reptiles and amphibians. In collaboration with Dr. Bernard Greenberg of Roosevelt University, he continued studies of the reproductive cycle in the frog *Rana erythraea*. Assistant Curator Hymen Marx has collaborated with Curator Inger in revising a genus of snakes.

**DIVISION OF FISHES.** Curator Woods continued taxonomic studies of fishes from the Caribbean Sea and adjacent waters and began work on an account of the fishes of the Order Berycoidei for the series "Fishes of the Western North Atlantic," to be published by Sears Foundation. Associate Marion Grey, who continued to occupy herself with the deep-sea fishes of the Caribbean and adjacent waters, began a study of the genus *Anoplogaster* of the Dana Collection. Associate Edward M. Nelson, now at the University of Puerto Rico, completed two papers (using Museum material) that he had begun before leaving Chicago.

**DIVISION OF INSECTS.** Curator Wenzel spent most of his research time on a study of the parasitic bat flies of Panama (part of Family Streblidae) in collaboration with Major Vernon J. Tipton of the United States Army. Curator Wenzel also prepared a key to the genera of North American histrid beetles and a checklist of the Michigan forms of the family, both for separate publication, and has nearly completed a revision of the New World genera of the family.

Associate Curator Dybas continued studies of the beetles of the families Limulodidae and Ptiliidae and published three short papers on the latter. His studies of the periodical cicada, begun in 1956, have been completed.

Research Associate Charles H. Seevers has nearly completed his monograph of the rove beetles (Family Staphylinidae) that live with ants, a study supported by a grant from the National Science Foundation. Research Associate Alex K. Wyatt prepared a short paper describing a new moth. Associate Harry G. Nelson studied dryo-

poid beetles of the genus *Pelonomus* of tropical America. Associate Lillian A. Ross continued her studies of spiders.

DIVISION OF LOWER INVERTEBRATES. Curator Emeritus Fritz Haas, at the request of the Academy of Natural Sciences (San Francisco), studied certain of their collections from tropical Africa, Madagascar, and Central and South America with the understanding that we retain types and duplicates. Two papers have resulted. Dr. Haas also began a monograph on fresh-water mussels (Unionidae), to be published in the series *Das Tierreich* (Berlin).

Curator Solem made considerable progress on a review of the landsnails of Panama, but his main research was on the snails (endodontids) of the Pacific islands. Assistant Ernest J. Roscoe continued his studies of the mollusks of the pluvial Lake Bonneville in Utah and completed a checklist of the mollusks of Utah.

DIVISION OF ANATOMY. Curator D. Dwight Davis continued his anatomical study of the giant panda. Research Associate R. M. Strong continued his study of the anatomy of birds, and Research Associate Waldemar Meister continued his study of the histological structure of the long bones in penguins.

## Care of the Collections—Zoology

Routine in the Department of Zoology demands a wide variety of skills, but none is more exacting than that of turning big, dried, board-hard, raw, mammal skins, as they come from the field, into soft, flexible, tanned skins suitable for handling and study. This is the province of our Tanner, Dominick Villa, and Assistant Taxidermist, Mario Villa.

To aid in their work we have installed a new skin-shaving machine with a rotating circular blade. Formerly, to shave a skin and so make it thin, the soaked skin was draped over a beam and the thick hide pared to an appropriate thinness all over with a two-handed shaving knife that had a turned scraping-edge. The tanner must not cut holes in the skin, or cut into the hair-roots so that the hairs fall out, or leave thick spots that will be stiff. Also with tender skins, such as those of some cats, foxes, and antelopes, and skins in poor condition, stretching or tearing must be avoided. The new shaving machine in which the hide is held against the rotating blade simplifies some of this, but it still does not do away with a skilled operator, such as Dominick Villa, who has carried on this work for us for thirty-one years and on his retirement this year will be succeeded by Mario Villa.

TANNER  
DOMINICK  
VILLA  
USING A  
SHAVING KNIFE



Assistant M. Dianne Maurer, in addition to more routine activities, identified small collections of South American birds, prepared study-skins of a few local birds that were brought to the Museum and conducted visitors through the Division of Birds. Assistant Janet Wright, among other duties such as typing and artwork, completed a check of the collection of herpetological reprints and catalogued the histological slides that were made for the study of frog breeding-cycles.

Assistant Pearl Sonoda's activities included processing numerous loans and exchanges, and, with the assistance during the summer of Thomas W. Case, Antioch College student, she saw that the fish collection had the proper amount of preservative. Assistant August Ziemer continued to prepare and label insects for study. Most important of the duties of Assistant Joan Davis Levin was preparation of anatomical drawings for the report on the giant panda for the Division of Anatomy.

Osteologist Sophie Andris continued her task of preparing skulls for the Division of Mammals and skeletons for the Division of Anatomy. F. John Allen, Dennis Buskirk, Miss Aileen M. Wagner, and Stephen J. Parshall, Antioch College students, helped in various phases of insect and mollusk curating.

### Accessions—Zoology

Our collections continue to grow at a gratifying rate, as the following figures show: mammals—1,079; birds—4,720; amphibians and reptiles—5,136; fishes—3,695; insects—49,643; lower invertebrates—about 100,000; anatomical material—43 specimens.

An important collection of about 50,000 shells, which is especially rich in Melanesian and South American material, was purchased from a private collector, Walter J. Eyerdam. Mrs. Margaret Teskey donated a valuable collection of about 14,000 nonmarine mollusks representing mostly North American species. A fine collection of Hawaiian tree-snails formed by George F. Arnemann, of Honolulu, was presented by him in memory of his wife, the late Evelyn Lena (Miller) Arnemann.

The Wyatt Collection of North American Lepidoptera, representing sixty-seven years of collecting and study by Research Associate Alex K. Wyatt, who gave it to us, is the most valuable study collection of this group that the Museum has acquired. It contains more than a third of the North American species, brought together by selective collecting and rearing.



COLLECTING  
BATS  
FROM A  
HOLLOW TREE

EXPEDITION  
IN  
PANAMA



## Exhibits—Zoology

"This Is a Mammal" is the title of the new exhibit that has been installed in Hall 15 (Mammals in Systematic Arrangement) as the first completed step in reinstalling the hall. Around a mounted cat, which is used as an example of a mammal, are grouped arrangements of bones, pieces of skin, models, diagrams, and paintings to present visually the characteristics of the class Mammalia in skin, muscle, organs, bones, care (suckling) of young, and warm-bloodedness (see illustration on page 54). Preliminary preparation of material for the next four exhibits in the series is well advanced with mounting most of the small mammals needed and making models for explanatory materials.

The model of the strange coelacanth fish known as *Latimeria chalumnae*, which the Museum purchased in 1958 (see Annual Report 1958, page 72), has finally been placed on exhibition. It has a case to itself in the Hall of Fishes (Hall O), as befits the uniqueness of this "living fossil" from the sea off the East African coast (see page 67 for illustration). Just opposite it is the exhibit of other "living fossil fishes," which was revised last year.

The renovation of older exhibits is progressively taking more time. This year, work on the walrus exhibit in the Hall of Marine Mammals (Hall N) was completed, which included cleaning the animals, renewing the accessories (chiefly snow), and repairing the background, and work has been started on the group of elephant seals, which needs similar attention. The disintegration of fins in the plastic models of fishes in Hall O is assuming serious proportions, and this, with water seepage in the habitat group of fishes of the Texas coast, has necessitated extensive repairs that are now under way.

Exhibition work was carried on by Artist Joseph B. Krstolich, Taxidermist Carl W. Cotton, and Assistant Taxidermist Peter Anderson. Artwork was prepared by Staff Artist E. John Pfiffner, who also assisted with design.

LIBRARY OF THE MUSEUM  
PUBLIC RELATIONS  
SCIENTIFIC SOCIETIES  
CO-OPERATION  
MOTION PICTURES  
PHOTOGRAPHY AND  
ILLUSTRATION  
THE BOOK SHOP  
PUBLICATIONS AND  
PRINTING  
MAINTENANCE, CONSTRUCTION  
AND ENGINEERING

WHALEBONE  
WAR  
CLUB  
FROM  
NEW ZEALAND

FULLER  
COLLECTION





## LIBRARY OF THE MUSEUM

The grand total of 10,336 items received in the Library during the year included books, periodicals, microfilms, photostats, maps, atlases, and musical recordings. The preponderance of these receipts consisted of serials, journals, and monographs provided through the exchange program maintained by the Museum with scientific and learned societies and other research centers both in this country and abroad. All together, 8,501 such items, including journals received on paid subscription, were recorded on the Kardex during the year.

Several exchanges that had been temporarily suspended were re-activated. The majority of these exchanges were located in European countries where reorganization of societies and institutions had taken place following World War II. The work performed by these centers is embodied in their publications, which form the immediate and primary working tools of the scientist, providing him with the very latest results of specific research.

Books and journals not obtainable by exchange and urgently needed in special-subject areas of the Museum's fields of interest were purchased. Of the 1,015 book orders placed, 974 had been received by the end of the year, and 2,015 volumes were accessioned. Because of limitations in the budget, many recommended titles, new and old, were set aside for further consideration. This list of desiderata continues to grow from year to year.

The cataloguing division is responsible for making the literature in the Library readily available for use. In all, 17,664 cards were filed in the general catalogue and departmental catalogues. In the preparation of subject entries for the Library's catalogue, the cataloguing division uses, as a basic reference, *Subject Headings Used in the Dictionary Catalogs of the Library of Congress* . . . (5th edition), a comprehensive volume of 1,204 pages. Over the years, the division has added innumerable additions, corrections, and emendations to bring the list of subject headings into conformity with the special needs of this Museum.

Considering the great growth of the Library's subject catalogue and the crowded condition of the "Subject Headings List," the Library decided to create an Authorities File for Subjects, similar to the Authorities File for Authors set up in 1957. Using the Library's subject catalogue and the "Subject Headings List," Miss Ann Williams, a library trainee from Hiram College working in the Library during the summer months, prepared subject headings and cross-reference cards for the letters A-G, a total of 7,105 cards. The cataloguers are now engaged in the painstaking work of revis-

ing these cards to eliminate duplication and to provide additional cross-references. It is believed that this procedure will contribute substantially to the usefulness of the Library's subject catalogue, not only for the staff, but for the general public as well.

To date, 1,952 subject headings have been revised and 1,512 additional cards have been included; 3,939 cards have been added during the year to the Authorities File for Authors. The cataloguing division further reports that 1,809 new titles, comprising 2,041 volumes, were catalogued during the year. In line with the reclassification program, 406 titles, comprising 2,613 volumes, were reclassified. All together, 2,215 titles and 4,654 volumes were processed and 1,340 analytics were made for monographs and selected subjects not included in published indexes. The listing of current holdings for inclusion in the third edition of the *Union List of Serials* was completed, and 631 cards were contributed to the National Union Catalog, representing literature unique in its field held in the Library.

Chih-wei Pan, under the supervision of the cataloguing division, has completed the descriptive cataloguing and typed main entry cards for 557 Chinese and Japanese works in the East Asian Library. These cards replace the original cards prepared by hand by Dr. Hoshien Tchen. The cards follow the form adopted by this Library for the cataloguing of works in Oriental languages. The main entry appears under the name of the author (or in some cases the title) in the original language with a translation into English of the title and a brief commentary, followed by a recapitulation in Chinese characters of the same information.

A large part of the Library's collection is housed in different locations throughout the Museum. This physical arrangement of the collections makes it impossible to indicate statistically the extensive use made of these hundreds of books on specialized subjects by the curators and their colleagues. Circulation figures for the Reading Room only show that 2,332 books were used by 524 visitors who made reference use of the Library's resources. These resources are not limited to the staff of the Museum or to members of the general public, but are further extended by interlibrary loans—71 libraries borrowed 222 volumes and the Museum Library in turn borrowed 131 volumes from 26 libraries. The reference division provided additional service to individuals who either wrote or telephoned their queries, by supplying them with the desired information or referring them to an authoritative source.

Altogether 1,446 volumes, mostly of serial publications, were prepared and sent to the bindery, an increase of 356 volumes over the preceding year. The efforts of the bindery division continued to

show gratifying results in the preservation and conservation of the Library's valuable research materials. During the course of the year 440 volumes were repaired in the Museum Library, and 4,441 volumes were labeled and bookplated. The year's activities included the usual task of shifting volumes in the general and departmental libraries in order to relieve congestion on the shelves caused by the continued influx of serial publications.

The program of removing duplicate and unwanted materials continued with the withdrawal of 246 items. The items not discarded were disposed of by exchange or sale. The net proceeds of material sold totaled \$357.64.

The Library is frequently called upon to translate correspondence and miscellaneous items into English. More than 220 items, some short and others long and involved, were translated.

Many important gifts were received in the Library from members of the Museum staff and other individuals. This opportunity is taken to express our appreciation to the donors whose names appear on page 103.

In co-operation with the student-training program of Antioch College, the Library was pleased to have the services of Miss Estelle Regolsky, Miss Karen Jorgensen, Miss Mary Jane Gaston, and Donald Hackett. The clerical assistance provided by these students enabled the Library staff to give greater attention to the professional aspects of the work at hand.

MODEL OF THE RARE LATIMERIA



HALL OF FISHES (HALL O)

## PUBLIC RELATIONS

During 1961 the Division of Public Relations launched a new program, expanded its general publicity procedures, established new office routines, and maintained the changes and gains in program begun last year.

In January a featured exhibit-of-the-month program was started. Its purpose is to focus public attention on the permanent exhibits of the Museum, a different one of which is selected for featuring each month. This program has not only been useful in highlighting new exhibits—which have ranged from a single exhibit to a whole new hall—but it has renewed public interest in older permanent exhibits and has encouraged visitors to seek acquaintance with less familiar areas of the Museum. Also, radio and television interviews were regularly arranged so that the curators responsible for the exhibits might bring them to the attention of still another audience.

The Museum wishes particularly to express its appreciation to *Chicago's American*, the *Chicago Daily News*, the *Chicago Sun-Times*, and the *Chicago Tribune* for regularly carrying feature articles and attractive picture-spreads—both in color and in black-and-white—about each month's exhibit. On the national level, response included feature articles in *Time* magazine and the *New York Times*, pickups by the national press services, several listings in the "Life Guide" of *Life* magazine, and an unprecedented coverage in news media all over the world for July's featured exhibit, "Primitive Artists Look at Civilization." The continuing co-operation of many local community newspapers is also noted with thanks and appreciation. The Museum's monthly *Bulletin* continued to provide a fruitful source of features and stories for both the local and the nation-wide syndicated press.

Among other procedures begun during the year was the establishment of filing systems for a large variety of records and photographs, primarily intended to aid the Division of Public Relations in carrying out more smoothly and promptly its responsibility to render service to the communications media and the general public. In addition, the program of distributing posters and mailing pieces advertising the Museum's summer events was expanded. For their continued courtesy in displaying, without charge, a number of publicity placards, the Museum wishes to thank the North Western Railway, Chicago Transit Authority, and Illinois Central System. Museum notices appeared in *Chicago Exhibitions Calendar* (published quarterly by the Adult Education Council) and *This Week in Chicago* (distributed by hotels and organizations concerned with tourists).



## ACTIVITIES OF STAFF MEMBERS IN SCIENTIFIC AND PROFESSIONAL SOCIETIES

Ten specialists—archaeologists and climatologists—accepted the invitation of Dr. Paul S. Martin, Chief Curator of Anthropology, to attend a conference at the field camp of the Museum's Southwest Archaeological Expedition at Vernon, Arizona. Discussions were concentrated on problems of obtaining and interpreting archaeological data and ways of furthering co-operation. The meeting was made possible by a grant from the National Science Foundation.

Chief Curator Martin attended the annual Pecos Conference on southwestern archaeology at Nevo Casas Grandes (Mexico), the Southwestern Ceramic Conference at the Museum of Northern Arizona (with Dr. John B. Rinaldo, Associate Curator of Archaeology), and the meetings at Philadelphia of the American Anthropological Association. Dr. Donald Collier, Curator of South American Archaeology and Ethnology, George I. Quimby, Curator of North American Archaeology and Ethnology, Dr. Roland W. Force, Curator of Oceanic Archaeology and Ethnology, and Phillip H. Lewis, Curator of Primitive Art, also attended the meetings of the American Anthropological Association, where Curator Quimby and Curator Force presented papers.

Curator Force attended the meeting of the Central States Anthropological Society at Ohio State University (where he was elected first vice-president) and the Tenth Pacific Science Congress of the Pacific Science Association at the University of Hawaii (where he was chairman of a session and convener). Chief Curator Martin, Curator Collier, and Curator Quimby attended meetings of the Society for American Archaeology at Ohio State University, where Curator Quimby presented a paper. Allen S. Liss, Custodian of Collections, attended meetings of the Illinois Archaeological Survey in Urbana and served as judge of projects for the Junior Academy of Sciences.

During the summer Dr. Hoshien Tchen, Consultant for the East Asian Collection, visited Taiwan to attend the educational and cultural sessions of the important Yang-ming Shan Forum, which was held near the capital city of Taipei. During his stay on Taiwan Dr. Tchen spoke over the Taiwan radio and described the educational activities of the Museum, particularly those relating to Asiatic archaeology and ethnology.

John R. Millar, Chief Curator of Botany, attended the Conference of Directors of Systematic Collections at San Francisco and, with Dr. Louis O. Williams, Curator of Central American



NEW  
HALL F

MICRONESIA  
AND  
POLYNESIA



Botany, the American Institute of Biological Sciences at Purdue University. Curator Williams attended the meeting of the Society for Economic Botany at Cambridge. Dr. C. Earle Smith, Jr., Associate Curator of Vascular Plants, continued to serve as secretary of the systematics section of the Botanical Society of America.

Dr. Robert H. Denison, Curator of Fossil Fishes, was elected vice-president and Dr. Rainer Zangerl, Curator of Fossil Reptiles, was elected secretary-treasurer of the Society of Vertebrate Paleontology at its annual meeting, which was held at Chicago Natural History Museum. Curator Denison attended a Gordon Research Conference on chemistry, physiology, and structure of bones and teeth and gave a lecture. William D. Turnbull, Assistant Curator of Fossil Mammals, and Orville L. Gilpin, Chief Preparator of Fossils, attended the Field Conference held in western Nebraska by the Society of Vertebrate Paleontology.

Dr. Austin L. Rand, Chief Curator of Zoology, attended the meetings in Washington of the American Ornithologists' Union. Other members of the staff of the Department of Zoology who attended meetings of scientific societies in their fields were: Philip Hershkovitz, Curator of Mammals, and Dr. Karl Koopman, Assistant Curator—American Society of Mammalogists (in Urbana); Dr. Robert F. Inger, Curator of Amphibians and Reptiles—American Society of Ichthyologists and Herpetologists (in Austin); Loren P. Woods, Curator of Fishes—American Institute of Biological Sciences (at Purdue University); Henry S. Dybas, Associate Curator of Insects—North Central Branch of the Entomological Society of America (in Kansas City); Dr. Fritz Haas, Curator Emeritus of Lower Invertebrates—American Malacological Union (in Santa Barbara); Dr. Alan Solem, Curator of Lower Invertebrates, and Ernest J. Roscoe, Assistant—American Malacological Union (in Washington); Curator Solem—Pacific Science Congress (in Honolulu); and D. Dwight Davis, Curator of Vertebrate Anatomy—American Society of Mammalogists (in Urbana), American Society of Zoologists (in Denver), and the Society for the Study of Evolution (at Purdue University).

Dr. Clifford C. Gregg, Director of the Museum, and E. Leland Webber, Assistant Director, attended the annual meeting of the Association of Science Museum Directors at Cranbrook Institute of Science, where Dr. Gregg introduced a panel discussion. Dr. Gregg also attended the annual meeting in Detroit of the American Association of Museums, at which he was one of three panel speakers on federal support of museums. Members of the staff who also attended the meeting of the American Association of Museums were Assistant

Director Webber, Chief Curator Millar, Curator Force, Custodian Liss, and Miss Miriam Wood, Chief of Raymond Foundation. Miss Wood, who was vice-president at large of the Midwest Conference of Museums for 1960-61, attended the meetings in Lansing of the Midwest Conference of Museums.

The Museum Library was represented at the annual convention in San Francisco of Special Libraries Association by the Librarian, Mrs. Meta P. Howell, and the Associate Librarian, Mrs. M. Eileen Rocourt. They took advantage of the specialized activities pertaining to the functions of the Museum's Library that were on the program of the convention. Local meetings of the American Library Association and Special Libraries Association were attended by members of the Library staff during the year.

Members of the Museum staff who continued to serve in various editorial capacities on scientific journals include Curator Collier, *American Antiquity*; Curator Davis, *Evolution* (managing editor); Curator Inger, *Copeia*; Associate Curator Rinaldo, *Archives of Archaeology*; Curator Thieret, *Economic Botany*; Assistant Curator Turnbull, *Säugertierkundliche Mitteilungen* (Stuttgart, Germany) and *Society of Vertebrate Paleontology News Bulletin*; Curator Williams, *Economic Botany*; and Curator Woods, *The American Midland Naturalist*.

Numerous articles and reviews are contributed by members of the Museum's scientific staff to various learned journals. A list of some of this material in 1961, including books by staff members not published by the Museum but on subjects within the Museum's field of interest and research, begins on page 83.

## CO-OPERATION WITH OTHER INSTITUTIONS

Dr. Donald Collier, Curator of South American Archaeology and Ethnology, George I. Quimby, Curator of North American Archaeology and Ethnology, and Dr. Kenneth Starr, Curator of Asiatic Archaeology and Ethnology, taught courses at the University of Chicago, and Curator Collier and Curator Quimby lectured at the University of Illinois (Urbana). In collaboration with the Milwaukee Public Museum and the Milwaukee Art Center, Dr. Roland W. Force, Curator of Oceanic Archaeology and Ethnology, and Curator Collier lectured in Milwaukee. The course in museology, which is given by the entire staff of the Museum's Department of Anthropology in co-operation with the Department of Anthropology of the University of Chicago, was continued at the Museum (Miss Mary Hogquist held the Museum Fellowship of the University of Chicago during 1960-61, and Fecadu Gadamu, from Addis Ababa, Ethiopia, was awarded the fellowship for 1961-62).

Dr. John W. Thieret, Curator of Economic Botany, taught an undergraduate course at the University of Chicago during the spring.

Under the Visiting Scientist Program of the American Geological Institute, Dr. Rainer Zangerl, Curator of Fossil Reptiles, was invited to lecture at West Texas State Teachers College and at Brigham Young University. Dr. Edward J. Olsen, Curator of Mineralogy, gave six lectures at the evening division of Indiana University Extension (South Bend) and also lectured at the Illinois Institute of Technology. Bertram G. Woodland, Associate Curator of Petrology, addressed the Geology Club of Northwestern University. Harry E. Changnon, Curator of Exhibits, conducted six geology field trips for the Chicago Academy of Sciences.

Dr. Robert F. Inger, Curator of Amphibians and Reptiles, lectured at the University of Southern California and at San Diego State College; Loren P. Woods, Curator of Fishes, lectured before the Institute for Biology Teachers at Earlham College and at the University of Hawaii; Ernest J. Roscoe, Assistant in the Division of Lower Invertebrates, lectured at the University of Utah; D. Dwight Davis, Curator of Vertebrate Anatomy, lectured at the University of Chicago and at the University of Illinois (Navy Pier) and delivered four lectures for a joint program between the Chicago Academy of Sciences and Chicago Teachers College; and Henry S. Dybas, Associate Curator of Insects, gave a seminar at the University of Chicago. Dr. Austin L. Rand, Chief Curator of Zoology, was awarded the honorary degree of Doctor of Science by his alma mater, Acadia University, Nova Scotia, Canada.

Classes from many universities and colleges in the United States and Canada visited the scientific departments of the Museum or otherwise used the Museum's facilities. Supervised classes from a number of art schools continued to use the Museum exhibits as part of their regular classwork in sketching, painting, and modeling (see page 33). The Chicago Area Science Fair (sponsored by the Chicago Teachers Science Association) and Chicago Latin Day (sponsored by the Illinois Classical Conference for Latin Students of the Chicago Area) were held in the Museum.

The Library of the Museum collaborated during the year with Rosary College Library School and the Graduate Library School of the University of Illinois in their programs of assigning students to various libraries for on-the-job training in library techniques (two students were instructed in the specialized work of this Library). Under the co-operative plan adopted in 1946 by this Museum and Antioch College eighteen students were employed in 1961 by the Museum (their names are listed in appropriate places in this Report).

Various local organizations continued to use the Museum for their regular meetings or for lectures. Among them were the Adult Education Council, Chicago Police Academy, Citizenship Council of the Board of Education, Illinois Orchid Society, Kennicott Club, Nature Camera Club of Chicago, and Orcheses Dance Group of the University of Illinois.

The Free Concerts Foundation presented ten concerts in James Simpson Theatre of the Museum. These were varied programs arranged and financed by Mrs. J. Dennis Freund, an Associate Member of the Museum and organizer and president of the Free Concerts Foundation. The programs included notable music and musicians who had not been heard previously in Chicago or who had not appeared here for an undue length of time. The Free Concerts Foundation has been eminently successful in accomplishing its avowed purpose of stimulating interest in chamber music and of offering free to students of music an opportunity to hear outstanding artists.

PORTERS  
CARRYING  
FRENCH  
OFFICIAL

MADAGASCAR



"PRIMITIVE ARTISTS LOOK AT CIVILIZATION"  
HALL OF PRIMITIVE ART (HALL 2)



## MOTION PICTURES

General inspection of all film-subjects in the Museum's Film Library, which includes repair, cleaning, and replacement of damaged sections, was accomplished on the usual twice-a-year basis. Cataloguing and accessioning films, now numbering 108 complete productions, were continued, and checking film in the footage library (which contains thousands of feet of film on miscellaneous natural-history subjects) was completed.

During the year "Through These Doors," the film that pictures Museum activities, was screened by fifty-five schools throughout the Chicago area for thousands of school children. Various adult groups also requested use of the film, which is lent free, but, with only eight prints of the film available at the present time, all requests could not be filled.

All photography, editing, and script preparation for the Museum's new film (yet to be titled) have been completed. It is planned that this new film will be ready for showing early in 1962.

## PHOTOGRAPHY AND ILLUSTRATION

John Bayalis and Homer V. Holdren, assisted by Ferdinand Huysmans, increased production in the Division of Photography, the items handled reaching a total of 158,487 (which included 1,882 new negatives and 32,592 contact prints, in addition to enlargements, Kodachromes, and other special orders). The quality of their work continued to meet the high standards of the Museum. Filing and maintenance of records were capably handled by Miss Mary Creed, as customary.

E. John Pfiffner, Staff Artist, and Miss Marion Pahl, Staff Illustrator, continued to produce a wide variety of drawings and layouts. Demands upon them for their specialized services were heavy, but as usual they responded to the challenge.

## THE BOOK SHOP

Sales of books, souvenirs, and novelties through the Museum Book Shop, which were slightly less than the sales of the previous year, amounted to \$182,327. Sales by mail still were a considerable item. The Book Shop continued to be a source of authoritative information for schools, students, and naturalists in general.



## PUBLICATIONS AND PRINTING

Following the pattern of recent years, activity in the Division of Publications again reached record levels. Shipment of publications without charge under exchange agreements totaled 24,461 copies, which is a higher total than in any previous year except 1946 and 1947 when publications that had accumulated during World War II were distributed. Sales of 72,425 copies were 11 per cent more than 1960 sales and the highest in the Museum's history.

Many of the Museum's mailing operations have been located for a number of years in the Division of Publications. In a further consolidation virtually all Museum mailing and mimeographing were centralized there during 1961. George Kasha, who was employed to handle this considerably augmented work, co-operated closely with Raymond A. N. Gomes and Miss Hilda Nordland, and the transition was smoothly accomplished.

During the year the Museum issued 37 publications in its scientific series, 4 reprints in its popular series, 1 reprint of a special publication, 1 annual report, 1 guidebook, 1 index, and 16 Museum Storybooks (9 reprints). Of these, copies printed by the Museum Press totaled 126,081 from 2,197 pages of type composition. Twelve issues of *Chicago Natural History Museum Bulletin* were printed, averaging 8,911 copies an issue. In addition there were posters, price lists, lecture programs, invitations, announcements, post cards, and looseleaf Museum Stories (for the Raymond Foundation), totaling 994,340 impressions.

Publications issued by the Museum in 1961 are listed on the following pages. Titles of articles by staff members printed in volume 32 of the Museum's *Bulletin* are also given.

## MUSEUM PUBLICATIONS IN 1961

### DEPARTMENT OF ANTHROPOLOGY

LEWIS, PHILLIP H.

*A Definition of Primitive Art*, Fieldiana: Anthropology, volume 36, number 10, 21 pages, 5 illustrations

MARTIN, PAUL S., JOHN B. RINALDO, AND WILLIAM A. LONGACRE

*Mineral Creek Site and Hooper Ranch Pueblo, Eastern Arizona*, Fieldiana: Anthropology, volume 52, 181 pages, 97 illustrations

### DEPARTMENT OF BOTANY

MACBRIDE, J. FRANCIS

*Flora of Peru*, Botanical Series, volume 13, part 5c, number 1, 105 pages

SCHWEINFURTH, CHARLES

*Orchids of Peru*, Fieldiana: Botany, volume 30, number 4, 227 pages, 34 illustrations

WILLIAMS, LOUIS O.

*Tropical American Plants, II*, Fieldiana: Botany, volume 29, number 6, 30 pages

STANDLEY, PAUL C., AND LOUIS O. WILLIAMS

*Flora of Guatemala*, Fieldiana: Botany, volume 24, part 7, number 1, 193 pages, 29 illustrations

### DEPARTMENT OF GEOLOGY

COLBERT, EDWIN H.

*The Triassic Reptile, Poposaurus*, Fieldiana: Geology, volume 14, number 4, 20 pages, 5 illustrations

KJELLESVIG-WAERING, ERIK N.

*Eurypterids of the Devonian Holland Quarry Shale of Ohio*, Fieldiana: Geology, volume 14, number 5, 20 pages, 20 illustrations

NITECKI, MATTHEW H.

*Catalogue of Type Specimens of Foraminifera in the Walker Museum of Paleontology*, Fieldiana: Geology, volume 13, number 2, 54 pages

### DEPARTMENT OF ZOOLOGY

BLAKE, EMMET R.

*A New Peruvian Race of Crypturellus obsoletus*, Fieldiana: Zoology, volume 39, number 51, 3 pages

*Notes on a Collection of Birds from Northeastern Colombia*, Fieldiana: Zoology, volume 44, number 4, 20 pages

*Variation in Myiozetetes luteiventris*, Fieldiana: Zoology, volume 44, number 9, 4 pages

BLAKE, EMMET R., GUNNAR HOY, AND FRANCISCO CONTINO

*Variation in the Quail-dove Geotrygon frenata*, Fieldiana: Zoology, volume 39, number 50, 6 pages

COCHRAN, DORIS M., AND COLEMAN J. GOIN

*A New Genus and Species of Frog (Leptodactylidae) from Colombia*, Fieldiana: Zoology, volume 39, number 48, 4 pages, 1 illustration

MUSEUM PUBLICATIONS IN 1961

DELFINADO, MERCEDES D.

*Haemolaelaps travisi*, a *New Species of Mite from the Philippines (Laelaptidae: Acarina)*, Fieldiana: Zoology, volume 44, number 6, 3 pages, 1 illustration  
*Philippine Zoological Expedition 1946-1947, The Philippine Biting Midges of the Genus Culicoides (Diptera: Ceratopogonidae)*, Fieldiana: Zoology, volume 33, number 7, 63 pages, 7 illustrations

DELFINADO, MERCEDES D., AND EDWARD W. BAKER

*Tropilaelaps*, a *New Genus of Mite from the Philippines (Laelaptidae [s. lat.]: Acarina)*, Fieldiana: Zoology, volume 44, number 7, 4 pages, 2 illustrations

DRAKE, CARL J.

*Philippine Zoological Expedition 1946-1947, A New Genus and Species of Cantacaderine Lace-bug from the Philippines (Hemiptera: Tingidae)*, Fieldiana: Zoology, volume 42, number 9, 4 pages, 1 illustration

DYBAS, HENRY S.

*A New Fossil Feather-wing Beetle from Baltic Amber (Coleoptera: Ptiliidae)*, Fieldiana: Zoology, volume 44, number 1, 9 pages, 5 illustrations

*A New Genus of Feather-wing Beetles from Termite Nests in Bolivia (Coleoptera: Ptiliidae)*, Fieldiana: Zoology, volume 44, number 8, 6 pages, 2 illustrations  
*Two New Genera of Feather-wing Beetles from the Eastern United States (Coleoptera: Ptiliidae)*, Fieldiana: Zoology, volume 44, number 2, 8 pages, 4 illustrations

FLEMING, ROBERT L., AND MELVIN A. TRAYLOR, JR.

*Notes on Nepal Birds*, Fieldiana: Zoology, volume 35, number 8, 47 pages, 4 maps

FOUQUETTE, M. J., JR.

*Status of the Frog Hyla albomarginata in Central America*, Fieldiana: Zoology, volume 39, number 55, 7 pages, 3 illustrations

HAAS, FRITZ

*New Land Mollusks from Madagascar and Mexico*, Fieldiana: Zoology, volume 44, number 3, 5 pages, 3 illustrations

HERSHKOVITZ, PHILIP

*On the Nomenclature of Certain Whales*, Fieldiana: Zoology, volume 39, number 49, 19 pages

*On the South America Small-eared Zorro Atelocynus microtis Sclater (Canidae)*, Fieldiana: Zoology, volume 39, number 44, 19 pages, 7 illustrations

INGER, ROBERT F.

*Notes on Two New Guinean Lizards of the Genus Sphenomorphus*, Fieldiana: Zoology, volume 39, number 47, 4 pages, 1 illustration

INGER, ROBERT F., AND ALAN E. LEVITON

*A New Colubrid Snake of the Genus Pseudorabdion from Sumatra*, Fieldiana: Zoology, volume 44, number 5, 3 pages, 1 illustration

INGER, ROBERT F., AND J. I. MENZIES

*A New Species of Toad (Bufo) from Sierra Leone*, Fieldiana: Zoology, volume 39, number 54, 6 pages, 2 illustrations

INGER, ROBERT F., AND J. D. ROMER

*A New Pelobatid Frog of the Genus Megophrys from Hong Kong*, Fieldiana: Zoology, volume 39, number 46, 6 pages, 1 illustration

## MUSEUM PUBLICATIONS IN 1961

LAIDLAW, FRANK FORTESCUE, AND ALAN SOLEM

*The Land Snail Genus Amphidromus, A Synoptic Catalogue*, Fieldiana: Zoology, volume 41, number 4, 175 pages, 26 illustrations

LIEFTINCK, MAURITS A.

*Philippine Zoological Expedition 1946-1947, New and Interesting Odonata from the Philippines*, Fieldiana: Zoology, volume 42, number 10, 31 pages, 9 illustrations

NELSON, EDWARD M.

*The Swim Bladder in the Serrasalminae, With Notes on Additional Morphological Features*, Fieldiana: Zoology, volume 39, number 56, 22 pages, 9 illustrations

RAND, AUSTIN L.

*The Tongue and Nest of Certain Flowerpeckers (Aves: Dicaeidae)*, Fieldiana: Zoology, volume 39, number 53, 7 pages, 2 illustrations

RAND, AUSTIN L., AND DIOSCORO S. RABOR

*A New Race of Crow, Corvus enca, from the Philippines*, Fieldiana: Zoology, volume 39, number 52, 3 pages

SOLEM, ALAN

*New Caledonian Land and Fresh-water Snails, An Annotated Check List*, Fieldiana: Zoology, volume 41, number 3, 89 pages, 8 illustrations

WOODS, LOREN P.

*A New Berycoid Fish from Brazil (Family Trachichthyidae)*, Fieldiana: Zoology, volume 39, number 45, 7 pages, 2 illustrations

## JAMES NELSON AND ANNA LOUISE RAYMOND FOUNDATION

ANDRE, MARYL

*Whales*, Museum Storybook [9 Museum Stories], 21 pages, 9 illustrations, paperbound

STAFF MEMBERS OF RAYMOND FOUNDATION

*Desert Life*, Museum Storybook [7 Museum Stories], 21 pages, 10 illustrations, paperbound

*Small Living Things*, Museum Storybook [8 Museum Stories], 20 pages, 13 illustrations, paperbound

STEPHENS, LORAIN

*Common Insects*, Museum Storybook [9 Museum Stories], 21 pages, 9 illustrations, paperbound [second edition]

SVOBODA, MARIE

*Spices*, Museum Storybook [9 Museum Stories], 21 pages, 9 illustrations, paperbound

*Trees*, Museum Storybook [8 Museum Stories], 20 pages, 8 illustrations, paperbound

[WOOD, MIRIAM, AND OTHERS]

*Living Giants*, Museum Storybook [9 Museum Stories], 21 pages, 10 illustrations, paperbound [second edition]

## MUSEUM PUBLICATIONS IN 1961

### OTHER MUSEUM PUBLICATIONS

*General Guide, Chicago Natural History Museum*, 48 pages, 32 illustrations, floor plans, map [fortieth edition]

*Report of the Director to the Board of Trustees for the Year 1960*, 187 pages, 26 illustrations

### CHICAGO NATURAL HISTORY MUSEUM BULLETIN

*Chicago Natural History Museum Bulletin*, volume 32 [1961], 12 numbers, 100 pages, illustrated

THE FOLLOWING ARTICLES AND REVIEWS BY STAFF MEMBERS OF CHICAGO NATURAL HISTORY MUSEUM ARE PRINTED IN VOLUME 32 OF THE BULLETIN:

[BEATTY, HARRY]

"Surinam Diary," no. 12, pp. 5, 8, 1 illustration [excerpts prepared by Austin L. Rand]

BLAKE, EMMET R.

"A Bird's Eye View of the Museum's Newest Exhibit," no. 1, pp. 6-7, 5 illustrations

DENISON, ROBERT H.

"New Fossil Fishes from Wyoming," no. 6, pp. 6-8, 3 illustrations

FORCE, ROLAND W.

"A Panorama of the Pacific," no. 5, pp. 2-5, 12, 11 illustrations and cover picture

GIBSON, DOROTHY

"Plant Dyes and Scottish Tartans," no. 9, p. 8, cover picture

HERSHKOVITZ, PHILIP

"This Is a Mammal," no. 6, pp. 3, 8, 3 illustrations

INGER, ROBERT F.

Review of *Living Amphibians of the World* [by Doris M. Cochran], no. 10, p. 7

Review of *The Care of Pet Turtles* [by Herndon G. Dowling and Stephen Spencook], no. 2, p. 7

LEWIS, PHILLIP H.

"Primitive Artists Look at Civilization," no. 7, pp. 2-3, 8, 7 illustrations and cover picture

MILLAR, JOHN R.

"1921-1961: 40 Years Recalled," no. 5, pp. 6-7, 1 illustration

"This Month's Cover," no. 4, p. 8, 1 illustration and cover picture

NELSON, PAULA R.

"Expedition!" no. 3, pp. 3-5, 3 illustrations

"Gems from the Urals," no. 10, pp. 4-5, 7 illustrations and cover picture

"Isis: Wife and Mother of the Sun," no. 12, p. 2, 1 illustration and cover picture

"Prehistoric Art of the Libyan Desert," no. 12, p. 4, 3 illustrations

"Tibet!" no. 2, p. 8, 3 illustrations and cover picture

"Winter Fur 'n Feathers," no. 12, pp. 3, 7-8, 1 illustration

MUSEUM PUBLICATIONS IN 1961  
THE MUSEUM BULLETIN (CONTINUED)

OLSEN, EDWARD J.

"A Hole in the Bottom of the Sea," no. 9, pp. 4-7, 3 illustrations

Review of *The Story of Geology* [by Jerome Wyckoff], no. 1, p. 3, 1 illustration

RAND, AUSTIN L.

Review of *Mark Catesby—The Colonial Audubon* [by George Frederick Frick and Raymond Phineas Stearns], no. 7, p. 5

ROSCOE, ERNEST J.

Review of *How to Know the American Marine Shells* [by R. Tucker Abbott], no. 10, pp. 7-8

Review of *1001 Questions Answered about the Seashore* [by N. J. Berrill and Jacquelyn Berrill], no. 7, p. 5

Review of *The Lower Animals, Living Invertebrates of the World* [by Ralph Buchsbaum and Lorus J. Milne], no. 2, p. 7, 1 illustration

ROY, SHARAT K.

"Messengers from Outer Space," no. 11, pp. 3, 7-8, 3 illustrations

SMITH, ELLEN T.

"Early Records of Chicagoland Birds," no. 8, pp. 3-5, 4 illustrations

SOLEM, ALAN

"Gems of the Everglades," no. 5, pp. 8-9, 2 illustrations

"Wanted: Used Snail Shells," no. 4, p. 3, 2 illustrations

STARR, KENNETH

"A Chinese Calendar Screen," no. 1, p. 8, 2 illustrations and cover picture

THIERET, JOHN W.

"Kerguelen's Cabbage," no. 4, pp. 4-5, 8, 1 illustration

TURNBULL, WILLIAM D.

"A Fossil Carnivore Den," no. 11, pp. 4-5, 3 illustrations

WIEBE, MAIDI

"Standing at the Wellsprings of the World's Art," no. 2, pp. 4-7, 7 illustrations

WILLIAMS, LOUIS O.

"Market Day in Antigua," no. 7, pp. 6-7, 3 illustrations

WOODS, LOREN P.

"Fish Collecting in Hawaii," no. 8, pp. 6-8, 6 illustrations



## OTHER PUBLICATIONS OF STAFF MEMBERS IN 1961

### DEPARTMENT OF ANTHROPOLOGY

#### COLLIER, DONALD

"Agriculture and Civilization on the Coast of Peru," in *The Evolution of Horticultural Systems in Native South America: Causes and Consequences* (edited by Johannes Wilbert) [Anthropologica, supplement no. 2, Sociedad de Ciencias Naturales La Salle, Caracas], pp. 101-109

"New Radiocarbon Method for Dating the Past, with Addendum on Developments, 1951-1960," in *The Biblical Archaeologist Reader* (edited by G. Ernest Wright and David Noel Freedman) [Anchor Books, New York], pp. 330-337

#### FORCE, ROLAND W.

"Keys to Cultural Understanding," in *Science*, vol. 133, no. 3460, pp. 1202-1206 [with Maryanne Force]

"The Arts of Oceania" [part 1], in *The Delphian Quarterly*, vol. 44, no. 2, pp. 35-40

"The Arts of Oceania" [part 2], in *The Delphian Quarterly*, vol. 44, no. 3, pp. 16-19, 26

Review of *Archaeological Excavations in Yap* (by E. W. and D. S. Gifford), in *Archaeology*, vol. 14, no. 3, p. 221

#### LEWIS, PHILLIP H.

"An Aspect of Change in Primitive Art," *The Delphian Quarterly*, vol. 44, no. 4, pp. 4-9, 3 illustrations

"The Artist in New Ireland Society," in *The Artist in Tribal Society* [Proceedings of a Symposium held at the Royal Anthropological Institute] (edited by Marian W. Smith) [Routledge & Kegan Paul Ltd., London], pp. 71-79, 83-85

#### MARTIN, PAUL S.

"A Human Effigy of Stone Found in a Great Kiva," in *The Kiva*, vol. 26, no. 4, pp. 1-5

#### QUIMBY, GEORGE I.

"Cord Marking Versus Fabric Impressing of Woodland Pottery," *American Antiquity*, vol. 26, no. 3, pp. 426-428

"Prehistoric Copper Pits on the Eastern Side of Lake Superior" [with James B. Griffin], in *Lake Superior Copper and the Indians: Miscellaneous Studies of Great Lakes Prehistory* (edited by James B. Griffin) [Anthropological Papers, no. 17, Museum of Anthropology, University of Michigan], pp. 77-82

"The McCollum Site, Nipigon District, Ontario" [with James B. Griffin] in *Lake Superior Copper and the Indians: Miscellaneous Studies of Great Lakes Prehistory* (edited by James B. Griffin) [Anthropological Papers, no. 17, Museum of Anthropology, University of Michigan], pp. 91-102

"The Pic River Site," in *Lake Superior Copper and the Indians: Miscellaneous Studies of Great Lakes Prehistory* (edited by James B. Griffin) [Anthropological Papers, no. 17, Museum of Anthropology, University of Michigan], pp. 83-89

"Various Finds of Copper and Stone Artifacts in the Lake Superior Basin" [with James B. Griffin], in *Lake Superior Copper and the Indians: Miscellaneous Studies of Great Lakes Prehistory* (edited by James B. Griffin) [Anthropological Papers, no. 17, Museum of Anthropology, University of Michigan], pp. 103-117

Review of *Ethnographic Bibliography of North America* (by George Peter Murdock), in *American Antiquity*, vol. 27, no. 1, p. 119

#### RINALDO, JOHN B.

Review of *Black Sand, Prehistory in Northern Arizona* (by Harold S. Colton), in *American Antiquity*, vol. 27, no. 2, pp. 256-257

## OTHER PUBLICATIONS OF STAFF MEMBERS IN 1961

### DEPARTMENT OF BOTANY

GIBSON, DOROTHY

"Life-forms of Kentucky Flowering Plants," *The American Midland Naturalist*, vol. 66, no. 1, pp. 1-60

THIERET, JOHN W.

"A Collection of Plants from the Horn Plateau, District of MacKenzie, Northwest Territories," *The Canadian Field-Naturalist*, vol. 75, no. 2, pp. 77-83

"New Plant Records for Southwestern District of MacKenzie," *The Canadian Field-Naturalist*, vol. 75, no. 3, pp. 111-121

"The Scrophulariaceae-Buchnereae of Central America," *Ceiba*, vol. 8, no. 2, pp. 92-101

Review of *Decorative Trees and Shrubs* (by Hans Zaugg and Hans Coaz), in *Economic Botany*, vol. 15, no. 1, pp. 111-112

Review of *Die Acker-und Grünlandleguminosen im Blütenlosen Zustand* (by Adolph Stählin), in *Economic Botany*, vol. 14, no. 4, pp. 333-334

Review of *Pasture and Range Plants* (anonymous), in *Economic Botany*, vol. 15, no. 2, p. 194

Review of *Vorläufiges Verzeichnis Landwirtschaftlich oder Gärtnerisch Kultivierter Pflanzenarten* (by Rudolph Mansfield), in *Economic Botany*, vol. 15, no. 2, pp. 202-203

Review of *Weeds* (by J. N. Whittet), in *Economic Botany*, vol. 15, no. 2, pp. 182-183

WILLIAMS, LOUIS O.

"*Aquilegia jonesii*, Rare Miniature Columbine," *American Horticultural Magazine*, vol. 40, no. 2, pp. 229-230

"De China," *Economic Botany*, vol. 15, no. 1, p. 112

"Guar, un cultivo para America Central," *Extension en las Americas*, vol. 6, no. 1, pp. 17-19

Review of *Some Fruits and Nuts for the Tropics* (by William C. Kennard and Harold F. Winters), in *Economic Botany*, vol. 15, no. 1, pp. 109-110

### DEPARTMENT OF GEOLOGY

DENISON, ROBERT H.

"Feeding Mechanisms of Agnatha and Early Gnathostomes," *American Zoologist*, vol. 1, no. 2, pp. 177-181, 4 illustrations

OLSEN, EDWARD J.

"High Temperature Acid Rocks Associated with Serpentinities in Eastern Quebec," *The American Journal of Science*, vol. 259, pp. 329-347

"Six-Layer Ortho-hexagonal Serpentine from the Labrador Trough," *American Mineralogist*, vol. 46, pp. 434-438

ROY, SHARAT K.

"A New Phosphate Mineral from the Springwater Pallasite," *Geochimica et Cosmochimica Acta*, vol. 24, pp. 198-205 [with E. R. Du Fresne]

### DEPARTMENT OF ZOOLOGY

BLAKE, EMMET R.

"Basic Science Dictionary (Birds Only)," in *Basic Science Handbook K3* [Scott, Foresman and Co., Chicago], pp. 211-335

OTHER PUBLICATIONS OF STAFF MEMBERS IN 1961

BLAKE, EMMET R. (CONTINUED)

"New Bird Records from Surinam," *Ardea*, vol. 49, pp. 178-183

"Ornithological Reconnaissance of Department Madre de Dios, Peru: A Preliminary Report," *Revista Universitaria* (Cuzco), vol. 49, no. 118, pp. 131-144, 1 map, 2 illustrations

GREY, MARION

"Fishes Killed by the 1950 Eruption of Mauna Loa, Part V: Gonostomatidae," *Pacific Science*, vol. 15, no. 3, pp. 462-476, 5 illustrations

INGER, ROBERT F.

"Problems in the Application of the Subspecies Concept in Vertebrate Taxonomy," in *Vertebrate Speciation* [University of Texas Symposium, 1961], pp. 262-285

The Bornean Cyprinoid Fishes of the Genus *Gastromyzon* Günther," *Copeia*, 1961, pp. 166-176 [with P. K. Chin]

"The Food of Amphibians," *Exploration du Parc National Albert and l'Upemba*, 1961, Fasc. 64, pp. 1-76 [with Hymen Marx]

NELSON, EDWARD M.

"The Comparative Morphology of the Definitive Swim Bladder in the Catostomidae," *The American Midland Naturalist*, vol. 65, no. 1, pp. 101-110

RAND, AUSTIN L.

A *Midwestern Almanac*, 176 pages [Ronald Press] (with R. M. Rand)

"Some Size Gradients in North American Birds," in *The Wilson Bulletin*, vol. 73, no. 1, pp. 46-56

"Wing Length as an Indicator of Weight: A Contribution," in *Bird Banding*, vol. 32, no. 2, pp. 71-79

ROSCOE, ERNEST J.

"John Wesley Powell—Pioneer Illinois Malacologist," in *American Malacological Union Annual Report*, 1961, p. 2 "The Molluscan Fauna of Pluvial Lake Bonneville" (Abstract), in *American Malacological Union Annual Report*, 1961, p. 25

"Preliminary Checklist of Lake Bonneville Mollusca," in *Sterkiana*, 1961, no. 4, pp. 23-28

SOLEM, ALAN

"Censusing Mollusks, or Variations on the Numbers Game," in *American Malacological Union Annual Report*, 1961, pp. 16-17

TRAYLOR, MELVIN A., JR.

"A New Race of *Parus funereus* (Verreaux)," in *Bulletin of the British Ornithologists' Club*, vol. 81, p. 3

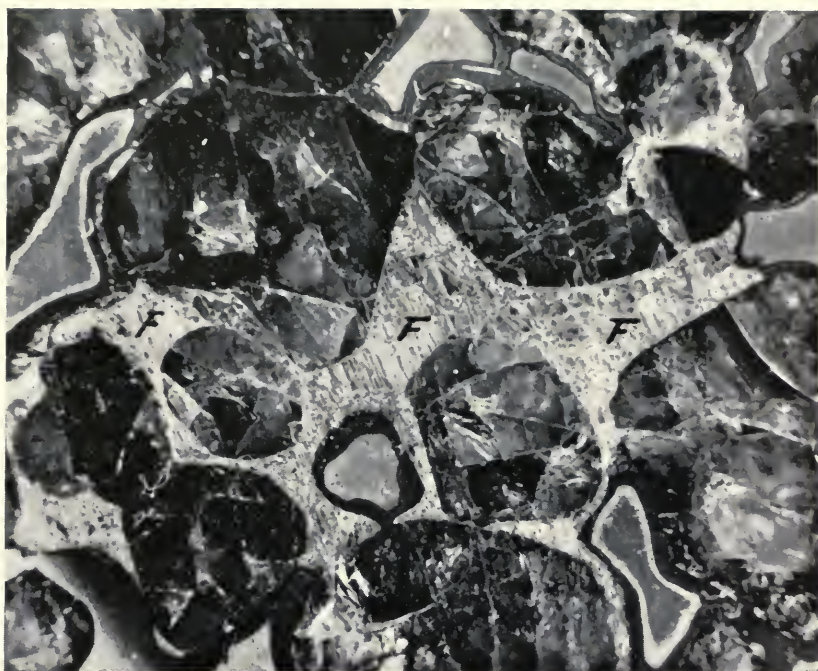
"Two New Birds from Angola," in *Bulletin of the British Ornithologists' Club*, vol. 81, pp. 43-45

"Ticks (Ixodoidea) on Birds Migrating from Africa to Europe and Asia," in *Bulletin World Health Organization*, vol. 24, pp. 197-212 [with others]

WOODS, LOREN P.

"*Chaetodon goniodes*, A New Butterfly Fish from Puerto Rico," in *Bulletin of Marine Science of the Gulf and Caribbean*, vol. 10, no. 4, pp. 417-420

"A New Species of Flatfish, *Monolene megalepis* from Puerto Rico and the Western Caribbean Sea," *Copeia*, 1961, no. 2, pp. 192-195, 1 illustration



POLISHED SECTION OF  
SPRINGWATER METEORITE  
SHOWING NEW MINERAL  
FARRINGTONITE (F)



## CAFETERIA AND LUNCHROOM

Total attendance and total receipts from the food services of the Museum closely approximated the figures of the preceding year. More than 257,000 persons used the cafeteria and lunchroom, and gross receipts amounted to \$213,690. It was necessary for the Museum to make additional provision for school children who brought their lunches as the popularity of "a day at the Museum" continues to grow among schools of Chicago and the entire Middle West. It was not always possible, however, to make provision for all children who wished to use Museum facilities at lunchtime, and it is hoped that, as school groups become increasingly aware of the problem, scheduling of facilities at other than peakload hours will be increased.

## MAINTENANCE, CONSTRUCTION, AND ENGINEERING

Closing exterior windows in Hall 28 (Botany) was completed, together with extensive interior construction that will fit this hall for the reinstallation of exhibits in economic botany. Reinstallation of the collections in Hall 31 (Gems and Jewels) was completed, work that involved cleaning and painting the exhibit cases as well as rewiring and fitting many of them with new slimlined lamps. Remodeling Hall F (Anthropology) was completed, including rewiring and installation of lights appropriate to the new design of the hall.

In connection with the planned reinstallation of the Chinese and Tibetan collections in Hall 32 (Anthropology) construction was begun on a new storeroom for collections removed from exhibition and those now stored in another area. Many improvements to facilitate the storage of research collections and easy access thereto were completed. The Divisions of Maintenance and Engineering assisted in cleaning and repainting the interiors of exhibit cases in Hall 24 (Anthropology) and made repairs as needed in the exhibits of the walrus and elephant-seal groups in Hall N (Zoology).

Care of the exterior of the building included installation of eight iron roof-ladders that were necessary for easier access to various levels of the roof by the maintenance force. The floodlights were entirely relamped and fixtures cleaned. The third-floor façade at both the east and west of the building was tuckpointed, and new gutters were installed to serve certain areas of the main skylight. Personnel of the Chicago Park District made essential repairs to

the Museum's service drive and resurfaced the terrace at the west of the building.

In the boiler room the necessary annual cleaning was done during the summer months, and heat lamps were installed in the boilers to keep them dry and thus prevent corrosion. The front arches in boilers one and two were repaired, and a large section of breeching lining was replaced (it was necessary also to replace about nine feet of lining in stack). Stokers were inspected and repaired, and chemical pumps, motors, and accessory equipment were thoroughly renovated.

Air coolers were installed in the main skin-storage room on the fourth floor to prevent damage by heat in the summer months. Fire equipment received routine maintenance. Elevator maintenance, plumbing installation and maintenance, electrical work, and systematic cleaning and repainting were carried on as needed throughout the building during the year.

Under existing contracts 18,018,505 pounds of steam were furnished to the Chicago Park District and 12,549,000 pounds were furnished to the John G. Shedd Aquarium. For heating the Museum building 36,285,195 pounds of steam were generated.

## MISCELLANEOUS

In the pages that follow are submitted the Museum's financial statements, attendance statistics, door receipts, accessions, list of Members, articles of incorporation, and amended by-laws.

CLIFFORD C. GREGG, *Director*  
*Chicago Natural History Museum*



ATTENDANCE STATISTICS

FINANCIAL STATEMENTS

LIST OF ACCESSIONS



CHILDREN  
TAKE NOTES  
IN THE  
EXHIBITION  
HALLS

# COMPARATIVE ATTENDANCE STATISTICS AND DOOR RECEIPTS

FOR YEARS 1961 AND 1960

	1961	1960
Total attendance.....	1,307,567	1,244,374
Paid attendance.....	183,369	172,759
Free admissions on pay days		
Students.....	58,497	55,670
School children.....	199,487	178,200
Teachers.....	12,684	11,670
Members of the Museum.....	1,121	954
Service men and women.....	1,070	1,159
Special meetings and occasions.....	13,421	10,412
Press.....	48	84
Admissions on free days		
Thursdays (52).....	154,509	(52) 143,255
Saturdays (52).....	323,664	(53) 307,440
Sundays (52).....	359,697	(51) 362,771
Highest attendance on any day		
(July 23).....	14,812	(December 3) 13,472
Lowest attendance on any day		
(December 23).....	364	(February 15) 265
Highest paid attendance (July 4).....	4,925	(September 5) 3,757
Average daily admissions (363 days).....	3,602	(364 days) 3,418
Average paid admissions (207 days).....	886	(208 days) 831
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Number of picture postcards sold.....	288,673	273,247
Sales of Museum publications (scientific and popular), <i>General Guide</i> , and photographs; checkroom receipts.....	\$ 43,982	\$ 41,788

CHICAGO NATURAL HISTORY MUSEUM  
COMPARATIVE STATEMENT OF RECEIPTS  
AND EXPENDITURES—CURRENT FUNDS  
FOR THE YEARS 1961 AND 1960

GENERAL OPERATING FUND

RECEIPTS:	1961	1960
Endowment income—		
From investments in securities . . . . .	\$ 707,772	\$ 393,085
From investments in real estate* . . . . .	112,000	403,535
	<u>\$ 819,772</u>	<u>\$ 796,620</u>
* the Pittsfield Building was sold during 1960		
Chicago Park District—tax collections . . . . .	\$ 335,340	\$ 344,455
Annual and sustaining memberships . . . . .	30,830	30,220
Admissions . . . . .	45,842	43,190
Sundry receipts, including general purpose contributions . . . . .	99,898	87,624
Restricted funds transferred to apply against Operating Fund expenditures . . . . .	118,370	124,301
	<u>\$1,450,052</u>	<u>\$1,426,410</u>
EXPENDITURES:		
Operating expenses—		
Departmental . . . . .	\$ 666,995	\$ 661,832
General . . . . .	507,556	492,345
Building repairs and alterations . . . . .	107,834	98,914
	<u>\$1,282,385</u>	<u>\$1,253,091</u>
Collections—purchases and expedition costs . . . . .	\$ 70,961	\$ 67,448
Furniture, fixtures, and equipment . . . . .	17,558	6,395
Pension and employees' benefits . . . . .	67,545	69,341
Provision for mechanical plant depreciation . . . . .	22,486	10,000
Nonrecurring expenditures—		
Purchase and installation of boiler . . . . .		\$ 20,226
	<u>\$1,460,935</u>	<u>\$1,426,501</u>
DEFICIT FOR YEAR . . . . .	<u>\$ 10,883</u>	<u>\$ 91</u>

AUDITOR'S CERTIFICATE APPEARS ON FOLLOWING PAGE

CONTINUED ON NEXT PAGE

CHICAGO NATURAL HISTORY MUSEUM  
COMPARATIVE STATEMENT OF RECEIPTS  
AND EXPENDITURES—CURRENT FUNDS

FOR THE YEARS 1961 AND 1960 (CONTINUED)

THE N. W. HARRIS PUBLIC SCHOOL  
EXTENSION FUND

	1961	1960
Income from endowments.....	\$ 36,298	\$ 32,998
Expenditures.....	24,556	24,500
SURPLUS FOR THE YEAR.....	<u>\$ 11,742</u>	<u>\$ 8,498</u>

OTHER RESTRICTED FUNDS

RECEIPTS:	1961	1960
From Specific Endowment Fund investments....	\$ 91,917	\$ 79,181
Contributions for specific purposes.....	84,939	52,675
Operating Fund appropriation for mechanical plant depreciation.....	22,486	10,000
Sundry receipts.....	59,903	62,292
	<u>\$ 259,245</u>	<u>\$ 204,148</u>
EXPENDITURES:		
Transferred to Operating Fund to apply against expenditures.....	\$ 118,370	\$ 124,301
Added to Endowment Fund principal.....	58,552	55,000
Loss (gain) on sale of restricted fund securities..	\$ 121	(3,271)
	<u>\$ 177,043</u>	<u>\$ 176,030</u>
EXCESS OF RECEIPTS OVER EXPENDITURES.....	<u>\$ 82,202</u>	<u>\$ 28,118</u>

THE TRUSTEES,  
CHICAGO NATURAL HISTORY MUSEUM:

We have examined the accompanying comparative statement of receipts and expenditures—current funds of the Chicago Natural History Museum for the year ended December 31, 1961. Our examination was made in accordance with generally accepted auditing standards, and accordingly included such tests of the accounting records and such other auditing procedures as we considered necessary in the circumstances.

In our opinion, the statement mentioned above presents fairly the receipts and expenditures of the current funds of the Chicago Natural History Museum for the year ended December 31, 1961, in conformity with generally accepted accounting principles applied on a basis consistent with that of the preceding year.

ARTHUR YOUNG & COMPANY

Chicago, Illinois  
January 20, 1962

## USE DURING 1961 OF SPECIAL FUNDS CONTRIBUTED IN FORMER YEARS

ANTHROPOLOGY PURCHASE FUND.....	\$ 1,939.29
EDWARD E. AYER LECTURE FOUNDATION	
Cost of Museum lecture series.....	4,692.00
Subsidy to publication program.....	1,875.94
FREDERICK AND ABBY KETTELLE BABCOCK FUND	
Subsidy to publication program.....	2,342.94
MRS. T. B. BLACKSTONE FUND	
Purchase of specimens.....	1,417.75
WILLIAM J. AND JOAN A. CHALMERS TRUST FUND	
Purchase of specimens.....	163.00
MRS. JOAN A. CHALMERS BEQUEST FUND	
Purchase of specimens.....	341.09
Field Trip.....	500.00
Laboratory equipment.....	826.37
CONOVER GAME-BIRD FUND	
Purchase of specimens.....	701.00
D. S. Rabor Field Trip.....	3,500.00
Harry A. Beatty Expedition.....	35.00
THOMAS J. DEE FELLOWSHIP FUND	
Fellowship grants to	
Mrs. Barbara Solem.....	2,500.00
Mrs. Maria Weiss.....	360.00
GROUP INSURANCE FUND*	
Group insurance costs.....	7,103.73
N. W. HARRIS PUBLIC SCHOOL EXTENSION FUND	
Preparation, care, and distribution of exhibits to schools of Chicago	24,556.24
THE JOHNSON FOUNDATION	
Research on waxy palms.....	1,883.64
LIBRARY FUND†	
Purchase of books and periodicals.....	3,409.76
NATIONAL SCIENCE FOUNDATION	
Research subsidies (12 projects).....	45,061.99
JAMES NELSON AND ANNA LOUISE RAYMOND PUBLIC SCHOOL AND CHILDREN'S LECTURE FUND	
Subsidy to public school and children's lecture program.....	39,960.36
MAURICE L. RICHARDSON PALEONTOLOGICAL FUND	
Purchase of specimens.....	180.00
Field trip to Mecca, Indiana.....	200.00
Field trip to the Province of Quebec.....	518.45
KARL P. SCHMIDT FUND	
Study grants.....	285.00
ZOOLOGY PURCHASE FUND.....	136.59

These funds have been used in accordance with the stipulations under which they were accepted by the Museum. In addition, the income from more than \$15,000,000 of unrestricted endowment funds was used in general Museum operation.

\* Established by Stanley Field

† Established by Edward E. Ayer, Huntington W. Jackson, Arthur B. Jones, and Julius and Augusta N. Rosenwald



# Contributions and Bequests

Contributions and bequests to Chicago Natural History Museum may be made in securities, money, books, or collections. They may, if desired, take the form of a memorial to a person or cause, to be named by the giver. For those desirous of making bequests to the Museum, the following form is suggested:

## FORM OF BEQUEST

I do hereby give and bequeath to Chicago Natural History Museum of the City of Chicago, State of Illinois:

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*Cash contributions made within the taxable year to Chicago Natural History Museum to an amount not in excess of 20 per cent of the taxpayer's net income are allowable as deductions in computing net income for federal income tax*

# ACCESSIONS 1961

## DEPARTMENT OF ANTHROPOLOGY

ART INSTITUTE OF CHICAGO, Chicago: carved wooden representation of a cock—Benin City, Nigeria (exchange)

BAHR, MISS EDNA H., Ridgefield, Connecticut: 3 jade pieces and a pottery tray—China (gift); 1 stone ax—South Pacific (gift); 1 stone ax—England (gift)

BASCOM, DR. WILLIAM R., Berkeley, California: ethnological material—Nigeria (gift)

BRINKERHOFF, MR. AND MRS. WAYNE, Snowflake, Arizona: 4 restorable pottery bowls—Arizona (gift)

BROBECK, MISS EMMA, Chicago: 24 ethnological specimens—China (gift)

BUDD-HANNA, MRS. RUTH, Fort Wayne, Indiana: ethnological specimens from Bantu tribes—Benoni, Union of South Africa (gift)

BUNTING, MRS. F. H., New Orleans and New York: 3 rubbings and a booklet, *Thatta*—Thatta, Sind, Pakistan (gift)

BUSTIN, DR. ANDREW G., Joliet, Illinois: Japanese urn—Japan (gift)

CARE, Chicago Office: amulet case of silver and brass—Tibet (gift)

CERVENKA, JOE, Chicago: Hellenistic earring of gold, *circa* 200 B.C.—Near East (gift)

CHICAGO NATURAL HISTORY MUSEUM: Collected by Dr. Paul S. Martin (Southwest Archaeological Expedition, 1961): 1,010 stone, bone, and shell artifacts, 116 pottery vessels (43 whole and 73 restorable), 8 fragments of basket, mat, and cloth, 30 human skeletons, charcoal samples for dating, and potsherds and pigment samples—Arizona

Collected by Dr. Donald Collier (Peru Archaeological Expedition, 1956): 22 whole and fragmentary pots, 2 stone artifacts, 30 lots of organic material for identification, 50 lots of sherds, 13 enlargements of aerial photographs—Casma Valley, Peru

*Purchases.* 46 ethnological specimens and 50 photographic negatives from Beni and Santa Cruz provinces, Bolivia; sculpture and wood and a net

bag from Melbourne, Australia; 7 pieces of prehistoric pottery from Peru: 266 ethnological specimens and 71 photographic negatives from Bolivia and Brazil; 9 bark paintings from New Guinea

*Transfer:* Javanese batik—from Department of Botany, Chicago Natural History Museum (see Annual Report 1912 [vol. 4, no. 3, 1913], page 232, Accessions, Department of Botany, "Collected by C. F. Millsbaugh")

DAHLBERG, DR. ALBERT A., Chicago: 13 human teeth with betel incrustation—Bangkok, Thailand (gift)

DALKOFF, LEONARD, Rock Island, Illinois: 3 preconquest ornaments of gold-copper alloy—Colombia (gift)

FULLER, CAPTAIN, AND MRS. A. W. F., London: weapon (*hoeroa*)—New Zealand (gift)

GEARHART, MRS. CREED F., Evanston, Illinois: rubbing from Wat Po—Bangkok, Thailand (gift)

GREGORY, MRS. ALICE H., Chicago: shell necklace and silver bracelet, pendant, and brooch—southwestern United States (gift); woman's beaded costume (dress, leggings, moccasins, belt, headband), a beaded bandoleer, and 2 stone pipes—Montana (gift); 2 belts, 2 headbands, and a silver necklace—Guatemala (gift)

HOFFMAN, MISS MALVINA, New York: costume and accessory items used by models for Malvina Hoffman's sculptured figures in Hall 3—India, Ceylon, and Malay Peninsula (gift)

HOSELITZ, PROFESSOR BERT F., Chicago: 2 looms, 5 textiles, and 6 negatives showing looms in use—Tuxpan, Jalisco, Mexico (gift)

HOWE, CHARLES A., Homewood, Illinois: 41 Kodachrome slides on archaeological subjects—Mexico (gift)

KENNEDY, MISS BESS, Grafton, West Virginia: 2 Navaho rugs—Arizona or New Mexico (gift)

LACHMAN, HAROLD, Chicago: 2 lengths of cloth (1 from India and the other probably from India) (gift)

MUSEO NACIONAL DE PANAMA, Panama City, Panama: prehistoric pottery jar—Veraguas Province, Panama (gift)

MUSEUM OF NORTHERN ARIZONA, Flagstaff: Hopi top, rug, cookie jar, polychrome bowl, and silver necklace—Arizona (exchange)

NY CARLSBERG GLYPTOTEK, Copenhagen, Denmark: plaster cast of Egyptian statuette, complete except for head—Egypt (exchange)

PENDL, MRS. HENRY, Brookfield, Illinois: bowl—Philippine Islands (gift); textile—China (gift)

REED, EARL H., Chesterton, Indiana: tapa beater—Hawaii (gift)

SOLEM, MRS. GEORGE O., Oak Park, Illinois: Eskimo art-object made by young Eskimo about 1940—Alaska (gift)

TRIER, ROBERT, McKenzie Bridge, Oregon: 24 painted plaster reproductions of prehistoric figurines (fragments)—Canary Islands (gift)

WRIGHT, KENNETH M., Chicago: Chinese gown—Canton, China (gift)

## DEPARTMENT OF BOTANY

ADAMS, PROFESSOR PRESTON, Greencastle, Indiana: 31 specimens of *Hypericum* (gift)

BENNETT, HOLLY REED, Chicago: 2,946 specimens of vascular plants (gift)

BLAKE, EMMET R., Evanston, Illinois: fruiting specimen of *Prunus tomentosa* (gift)

BOTANISCHER GARTEN UND MUSEUM, Berlin-Dahlem, Germany: 160 plant specimens of the Oberneder herbarium (exchange)

BRITISH MUSEUM (NATURAL HISTORY), London: 127 specimens of vascular plants (exchange)

BROOKE, MISS WINIFRED M. A., Liss, Hants, England: 26 specimens of vascular plants (gift)

CALIFORNIA, UNIVERSITY OF, Berkeley: 46 specimens of algae (exchange) and 180 specimens of vascular plants (gift)

CHICAGO NATURAL HISTORY MUSEUM: Collected by Dr. John W. Thieret and Robert J. Reich (Northwest Territories Botanical Expedition, 1961-62): 5,243 specimens of vascular plants—Canada

Collected by Dr. Patricio Ponce de León (field work, 1961, in conjunction with Armour Research Foundation): 31 specimens of cryptogams—Wisconsin

*Purchases*: one-half pound of carob seeds and 10 varieties of carob pods, 360 specimens of North Pakistan vascular plants, 80 specimens of South African vascular plants, 313 specimens of Belgian Congo plants, 331 specimens of Mexican vascular plants

COLORADO, UNIVERSITY OF, Boulder: 3 type-photographs of herbarium specimens (one of *Klugia* and two of *Rhynchoglossum*) and 51 specimens of cryptogams (exchange)

CONSERVATOIRE ET JARDIN BOTANQUES, Geneva, Switzerland: 4,656 specimens of vascular plants from tropical America (exchange)

CONTINENTAL COFFEE COMPANY, Chicago: 12 samples of coffees (gift)

COSBY, DR. HUGH E., Minot, North Dakota: specimen of *Cladonia tenuis* (gift)

DUKE UNIVERSITY, Durham, North Carolina: 48 specimens of mosses (exchange)

DURKEE FAMOUS FOODS, Chicago: 4 samples of spices (gift)

DYBAS, HENRY S., Homewood, Illinois: 179 specimens of fungi (gift)

GIBSON, MRS. DOROTHY, Oak Park, Illinois: 115 specimens of vascular plants and 1 vial of seeds (gift)

GOVERNMENT SAWMILL DIVISION, Port Blair, Adaman Islands: 22 specimens of woods (exchange)

GRAY HERBARIUM, HARVARD UNIVERSITY, Cambridge, Massachusetts: 127 specimens of vascular plants and 113 photographs of specimens (exchange)

GREGG, DR. CLIFFORD C., Valparaiso, Indiana: 33 specimens of vascular plants and 1 specimen of lichen (gift)

INSTITUTO AGRONÓMICO DO SUL, Pelotas, Rio Grande do Sul, Brazil: 440 specimens of vascular plants (exchange)

INSTITUTO BOTÁNICO, Caracas, Venezuela: 3 type specimens of vascular plants (1 as gift and 2 in exchange)

INSTITUTO BOTANICO, Florence, Italy: 190 specimens of vascular plants (exchange)

INSTITUTO NACIONAL DE PESQUISAS DA AMAZÔNIA, Manaus, Amazonas, Brazil: 226 specimens of vascular plants (exchange)

LAUGHLIN, KENDALL, Chicago: specimen of *Quercus* (gift)

LAWRANCE, ALEX E., Natal, British Columbia, Canada: 25 specimens of vascular plants (gift)

LUNDELL, DR. CYRUS L., Renner, Texas: specimen of *Bartholomaea* (gift)

MARIN M., DR. FELIPE, Cuzco, Peru: 409 specimens of vascular plants (exchange)

MARTÍNEZ, DR. MAXIMINO, Mexico D.F., Mexico: isotype specimen of *Pelogyne mexicana* Martínez, with wood sample and descriptive publication (gift)

MATUDA, PROFESSOR EIZI, Mexico D.F., Mexico: 86 specimens of Orchidaceae (gift)

MICHIGAN, UNIVERSITY OF, Ann Arbor: 841 specimens of vascular plants (exchange)

MORTON, MRS. JULIA F., Coral Gables, Florida: 3 sample collections of plant by-products and raw materials (gift)

MORTON ARBORETUM, Lisle, Illinois: 50 specimens of vascular plants and 846 prints of woody plants (gift)

NATIONAL FEDERATION OF COFFEE GROWERS OF COLOMBIA, New York: 2 samples of coffees (gift)

NATURHISTORISKA RIKSMUSEET, Stockholm, Sweden: 145 specimens of vascular plants (exchange)

NESTLÉ COMPANY, INC., Fulton, New York: 13 samples of plant products and raw materials (gift)

NOTTINGHAM, UNIVERSITY OF, Sutton Bonington, Loughborough, England: 5 specimens of *Cephaelis ipecacuanha* (gift)

PALSER, DR. BARBARA, Chicago: 3 specimens of Ericaceae, with Kodachrome print of each specimen (gift)

PAN AMERICAN PETROLEUM CORPORATION, Tulsa, Oklahoma: 642 slides of various pollens (exchange)

PEABODY FOUNDATION, THE R. S. (Archaeological-Botanical Tehuacán Project), Amherst, Massachusetts: 2,837 specimens of vascular plants (exchange, in return for services of Dr. C. Earle Smith, Jr., as botanical consultant)

PIATTONI, CELSO, Chicago: sample bag of capers for spice exhibit (gift)

RINALDO, DR. JOHN B., Elmhurst, Illinois: 50 specimens of vascular plants (gift)

ROYAL BOTANIC GARDENS, Kew, Surrey, England: 107 specimens of vascular plants and one type-photograph (exchange)

SCHULTES, DR. RICHARD E., Cambridge, Massachusetts: type-specimen of *Saurauia Altrai* R. E. Schultes (gift)

SHERFF, DR. EARL E., Hastings, Michigan: 292 specimens of vascular plants (gift)

TRAVERSE, DR. ALFRED, Houston, Texas: 155 specimens of vascular plants (exchange)

UNITED STATES DEPARTMENT OF AGRICULTURE, Belle Glade, Florida: 5 packets of seeds and fibers of various fiber-producing plants (gift)

UNITED STATES NATIONAL MUSEUM, Washington, D.C.: 8 vascular plants (gift)

VOLLBRECHT, JOHN L., Lake Bluff, Illinois: 6 specimens of fungi and 2 samples of "luminiscent" wood (gift)

VOTH, DR. PAUL D., Chicago: 2 cultures of red yeast (gift)

WARD, DR. DANIEL B., Gainesville, Florida: 23 specimens of vascular plants (gift)

WILLIAMS, DR. LOUIS O., Park Forest, Illinois: 106 specimens of vascular plants and 1 negative of type-photograph of *Meliosma longipedunculata* Standl. & L. O. Wms. ex Brizicky (gift)

YUNCKER, DR. T. G., Greencastle, Indiana: specimen of *Mikania* (gift)

## DEPARTMENT OF GEOLOGY

AHNEN, RICHARD, Chicago: fossil clam—Utah (gift)

APPLEGATE, DR. SHELTON P., State College, Arkansas: fossil invertebrates, vertebrates, and plants—various localities (gift)

ARMISTEAD, ROBERT, Cicero, Illinois: fossil mammal rib-bone—Florida (gift)

BARSTOW, WILLIS, Palisade, Colorado: fossil turtle—Colorado (gift)

BUDD-HANNA, MRS. RUTH, Fort Wayne, Indiana: gold ore—South Africa (gift)

CHALMERS CRYSTAL FUND, WILLIAM J.: minerals—various localities (purchase)

CHICAGO, UNIVERSITY OF, Chicago: fossil reptiles—Oklahoma (gift)

CHICAGO NATURAL HISTORY MUSEUM: Collected by Dr. Robert H. Denison (Quebec Paleontological Field Trip, 1961): numerous fossil fishes—Canada

Collected by William D. Turnbull (during Society of Vertebrate Paleontology Field Conference, 1961): fossil mammals—Nebraska



Collected by Bertram G. Woodland (Vermont Geological Field Trip, 1961): numerous minerals—Vermont and southern Quebec

Collected by Dr. Rainer Zangerl, Dr. Eugene S. Richardson, Jr., and Mr. Woodland (field work, 1961): fossil invertebrates, fishes, and minerals—Indiana

CONN, MRS. H. K., Quebec, Canada: minerals—Canada (gift)

COPE, PROFESSOR JAMES B., Richmond, Indiana: hyoid apparatus cast of a fossil mammal—Indiana (gift)

COPENHAGEN UNIVERSITY, MINERALOGICAL AND GEOLOGICAL MUSEUM, Copenhagen, Denmark: minerals—Greenland (exchange)

DARTMOUTH COLLEGE MUSEUM, Hanover, New Hampshire: cast of fossil fish—Escuminac Bay, Canada (exchange)

DAVIS, ROBERT C., Chicago: minerals—California (gift)

DURAND, PAUL, Los Angeles: minerals—Brazil (gift)

ERLING, DANIEL, Milwaukee, Wisconsin: minerals—various localities (gift)

HANNEN, MISS GERTRUDE, Chicago: fossil snails—Illinois (gift)

HESS, DR. HANS, Binningen, Basel, Switzerland: fossil invertebrates—various localities (gift)

HILL, CHRIS, Glen Ellyn, Illinois: slab with fossil invertebrates—Illinois (gift)

HISER, WILLIAM, Ann Arbor, Michigan: fossil invertebrates—Michigan (gift)

HOFSTETTER, OSCAR B., Nashville, Tennessee: fossil crab—Tennessee (exchange)

JOHNSON, JACK, Carrollton, Texas: fossil fish—Texas (gift)

KELLY, WILLIAM D., Clarendon Hills, Illinois: fossil fishes, invertebrates, and minerals—various localities (gift)

KJELLESVIG-WAERING, ERIK N., Port of Spain, Trinidad, British West Indies: fossil invertebrate—Bolivia (gift)

KNECHT, MRS. OTTO H., Evanston, Illinois: fossil invertebrates—Florida (gift)

LANGSTON, DR. WANN, Ottawa, Ontario, Canada: cast of fossil fish (exchange)

LOOK, AL, ELMER MOYER, AND SUE HILL, Grand Junction and Rifle, Colorado: fossil mammal material and cast of mammal specimen—Colorado (gift)

MUSEO CIVICO DI STORIA NATURALE DI MILANO, Milan, Italy: fossil fishes and fossil plants—Italy (exchange)

NEAL, QUINTIN, Chicago: fossil coral—Wisconsin (gift)

NILES, HAROLD F., River Forest, Illinois: petrified wood—Arizona (gift)

PAN AMERICAN PETROLEUM CORPORATION, Calgary, Alberta, Canada: fossil invertebrate in well-core—Canada (gift)

PRINCETON UNIVERSITY, Princeton, New Jersey: cast of forelimb of fossil mammal (exchange)

QUINN, JAMES H., Fayetteville, Arkansas: fossil invertebrates—various localities (exchange)

RICHARDSON PALEONTOLOGICAL FUND, MAURICE L., fossil fishes—Kansas (purchase)

SCHMID, RUDOLF V., Lake Bluff, Illinois: fossil invertebrate—Illinois (gift)

SCHWARTZ, DR. HENRY, Chicago: minerals—Vermont (gift)

SEIFERT, MARTIN, Carrollton, Texas: fossil fishes—Texas (gift)

SIMPSON, WILLIAM, Wheeling, Illinois: mineral—Illinois (gift)

SOUTHERN ILLINOIS UNIVERSITY, Carbondale: fossil invertebrates—Illinois (gift)

TULLY, FRANCIS, Chicago: fossil invertebrates—Illinois (gift)

UNITED STATES NATIONAL MUSEUM, Washington, D.C.: minerals—various localities (exchange)

UNIVERSIDADE DO RIO GRANDE DO SUL, ESCOLA DE GEOLOGIA, Porto Alegre, Rio Grande do Sul, Brazil: minerals—various localities (exchange)

WARD, MRS. CYRIL L., Evanston, Illinois: opals—various localities (gift)

WOLLIN, JAY, Morton Grove, Illinois: fossil invertebrates—Oklahoma (gift)

WOODLAND, BERTRAM G., Homewood, Illinois: minerals—Copenhagen (gift)

WRIGGLESWORTH, LORNE, Northwest Territories, Canada: gold ore—Canada (gift)

## DEPARTMENT OF ZOOLOGY

ACADEMIA R.P.R., INSTITUTUL DE BIOLOGIE, Bucharest, Rumania: 646 fishes—Rumania (gift)

ACADEMY OF SCIENCES, ZOOLOGICAL INSTITUTE, Leningrad, U.S.S.R.: 19 mammals—U.S.S.R. (exchange)

ALLCHIN, MRS. RUTH, West Malvern, England: 3 landsnails—Southern Rhodesia (gift)

AMERICAN MUSEUM OF NATURAL HISTORY, New York: 1 frog—New Guinea (exchange); 8 landsnails—Indonesia (exchange); 15 landsnails—Egypt (gift)

ANONYMOUS: 2 birds—Chicago (gift)

ARNEMANN, GEORGE F., Honolulu: collection of tree snails—Hawaii (gift)

BAKER, EMMETT B., Kingston, Massachusetts: approximately 96 marine and nonmarine mollusks—Massachusetts (exchange)

BARR, DR. THOMAS C., JR., Cookeville, Tennessee: 4 cave beetles—Texas (exchange)

BECKX, V., Amanzimototi, Natal, South Africa: bird—South Africa (gift)

BERGERON, EUGENE S., Balboa, Canal Zone: 66 mollusks—Panama (gift)

BLAKE, EMMET R., Evanston, Illinois: bird—Illinois (gift)

BONETTO, DR. ARGENTINO A., Santa Fe, Argentina: six lots of landsnails—Argentina (gift); 62 freshwater mussels—South America (gift)

BORGMEIER, FATHER THOMAS, O.F.M., Jacarepaguá, Brazil: 16 beetles—Central and South America (gift)

BREELAND, DR. SAMUEL G., Wilson Dam, Alabama: approximately 165 freshwater shells—Eastern North America (gift)

BRIGHAM YOUNG UNIVERSITY, Provo, Utah: 500 ants—Nevada (permanent loan)

BRITISH MUSEUM (NATURAL HISTORY), London: frog—Chile (exchange); 44 nonmarine mollusks—New Hebrides (exchange)

BUETTNER-JANUSCH, DR. JOHN, New Haven, Connecticut: 2 mammals—Kenya (gift)

CARNEGIE MUSEUM, Pittsburgh: 2 birds—Brazil and French Guiana (exchange)

CHACE, EMERY P., San Diego: 8 landsnails—Santa Barbara Islands and Lower California (gift)

CHICAGO NATURAL HISTORY MUSEUM:

Collected by Harry A. Beatty (Guiana Zoological Expedition, 1960–61): 220 mammals, 838 birds, 251 amphibians and reptiles, 151 fishes, 12 inland mollusks—Surinam

Collected by Dr. Robert F. Inger (Florida Zoological Field Trip, 1961): 128 amphibians and reptiles—Florida

Collected by D. S. Rabor (Philippine zoological field work, 1920): 219 birds—Philippine Islands

Collected by Dr. Alan Solem and Munroe L. Walton (Arizona Zoological Field Trip, 1961): approximately 950 landshells—Arizona

Collected by Dr. John W. Thieret (Northern Great Plains Botanical Field Trip, 1959): 7 frogs—Canada

Collected by Loren P. Woods and others (Hawaii Field Trip, 1961, sponsored by John G. Shedd Aquarium): 1,444 fishes—Hawaii

*Purchases*: 337 mammals, 2,998 birds and 1 egg, 2,698 amphibians and reptiles, 327 fishes, 21,897 insects, 65,283 specimens and 40 lots of lower invertebrates

CHICAGO PARK DISTRICT, Chicago: bird—Chicago (gift)

CHICAGO ZOOLOGICAL SOCIETY, Brookfield, Illinois: 14 mammals, 2 birds, 22 amphibians and reptiles—worldwide (gift)

CHIN, PHUI-KONG, Jesselton, North Borneo: 92 amphibians and reptiles (exchange); 95 amphibians and reptiles (gift)

CHURCH, DR. GILBERT, San Francisco: 238 amphibians and reptiles—Amboina, Borneo, and Java (gift)

COMPANHIA DE DIAMANTES DE ANGOLA, Dundo, Lunda, Angola: 3 mammals—Angola (gift)

DE BOE, MRS. MICHAEL PRICE, Coral Gables, Florida: 4 shells—Florida (gift)

DELESKE, DONALD, Chicago: bird—Idaho (gift)

DELFINADO, MISS MERCEDES D., Manila: 3 slides of mites—Philippine Islands (gift)

DE MAEYER, FRANCIS, Chicago: 3 birds—Mexico (gift)

DEMAREE, DELZIE, Hot Springs, Arkansas: 57 freshwater clams—Arkansas (gift)

DEVAMBEZ, DR. L., Noumea, New Caledonia: approximately 110 freshwater mollusks—Fiji Islands (gift)

DLUHY, EUGENE, Chicago: 4 butterflies—Formosa (gift)

DUARTE, ELISEO, Montevideo, Uruguay: approximately 85 shells—southern South America (exchange)



- DYBAS, HENRY S., Homewood, Illinois: 16 amphibians and reptiles—Palau (gift); 3 salamanders—Indiana (gift); 736 insects—Michigan (gift)
- EARLHAM COLLEGE, JOSEPH MOORE MUSEUM, Richmond, Indiana: bird—British Guiana (gift)
- EIGSTI, W. E., Hastings, Nebraska: butterfly—Nebraska (gift)
- EMERSON, DR. ALFRED E., Chicago: lizard—India (gift)
- EVANS, DAVID H., Hinsdale, Illinois: 129 fishes—England (gift)
- EVENSON, MISS JOANNE L., Chicago: 13 mollusks—Wisconsin (gift)
- EYERDAM, WALTER J., Seattle: approximately 500 marine snails—western North America (gift)
- FECHTNER, FREDERICK R., Rockford, Illinois: 29 sets of freshwater mussels—Illinois and Tennessee (gift)
- FERNANDO, E. G., Dehiwala, Ceylon: 26 insects—Ceylon (gift)
- FOBES, EDWARD, Omaha: 4 marine snails—Indo-Pacific (exchange)
- FREDERICK, MRS. C. L., Chicago: 65 marine shells—Ascension Island (gift)
- FULTON, DR. MACDONALD, Chicago: 262 frogs and lizards—Puerto Rico (gift)
- GALLOWAY, JOHN, Chicago: marmoset—locality unknown (gift)
- GANS, DR. CARL, Buffalo: mammal—locality unknown (gift)
- GENERAL BIOLOGICAL SUPPLY HOUSE, Chicago: 3 mammals—locality unknown (gift)
- GREENBERG, MRS. HOWARD, Lincolnwood, Illinois: bird—Illinois (gift)
- GREGG, DR. CLIFFORD C., Valparaiso, Indiana: 2 birds—Indiana (gift); land-snail—Austria (gift)
- HAILE, DR. NEVILLE S., Jesselton, North Borneo: 14 frogs—North Borneo (exchange)
- HERRINGTON, REV. H. B., Westbrook, Ontario, Canada: approximately 1,500 nonmarine mollusks—Eastern Canada (gift)
- HOLSTEIN, HERMAN, Oak Park, Illinois: dog—domesticated (gift)
- HOOGSTRAAL, DR. HARRY, Cairo, Egypt: 343 mammals, 249 birds, 36 amphibians and reptiles, 65 snails, 53 insects—Egypt and Sudan (gift); 2 mammals—India (gift); 1 snake—Montana (gift)
- HOWDEN, DR. HENRY, Ottawa, Ontario, Canada: 10 beetles—Canada and United States (gift)
- HOY, GUNNAR, Salta, Argentina: 2 birds—Argentina (gift)
- ILLINOIS, UNIVERSITY OF, Urbana: 13 landsnails—West Indies (exchange)
- ILLINOIS STATE NORMAL UNIVERSITY, Normal: 46 fishes—various localities (exchange)
- INAHARA, NOBUO, Osaka, Japan: 57 beetles—Japan (exchange)
- KISTNER, DR. DAVID, Chico, California: 116 insects—Mexico, Peru, and United States (gift)
- KOOPMAN, DR. KARL F., New York: mammal—Guadeloupe (gift)
- KRAUSS, DR. N. L. H., Honolulu: 2 lizards—Tuamotu (gift)
- KUNTZ, DR. ROBERT E., care of APO, San Francisco: 669 amphibians and reptiles—Formosa (exchange); 101 amphibians and reptiles—Pescadores (gift)
- LAMBERT, ROLAND J., Zion, Illinois: snake skin—Illinois (gift)
- LANGGUTH, ALFREDO, Montevideo, Uruguay: mammal—Uruguay (gift)
- LANSBURY, I., Oxford, England: 4 insects—Netherlands New Guinea (exchange)
- LAYNE, DR. JAMES N., Gainesville, Florida: 2 insects—Florida (gift)
- LEHMANN, DR. WILMA H., Chicago: 9 mammals—locality unknown (gift)
- LENNOX, JAMES W., Plano, Illinois: 33 landsnails—Illinois (gift)
- LEVELL, JOHN P., Chicago: mammal—France (gift)
- LINCOLN PARK ZOOLOGICAL SOCIETY, Chicago: 2 mammals, 2 birds, 3 amphibians and reptiles—various localities (gift)
- LOCKWOOD, DUNBAR, Cambridge, Massachusetts: mammal—U.S.S.R. (gift)
- LONG, LEWIS E., Harrison, Arkansas: 310 insects—Afghanistan (gift)
- MACHADO-ALLISON, LIC. CARLOS E., São Paulo, Brazil: 10 beetles—Brazil (exchange)
- MALAYA, UNIVERSITY OF, Kuala Lumpur, Malaya: 419 fishes—Malaya (gift)
- MALKIN, BORYS, Chicago: 93 fishes—Bolivia (gift)
- MAURER, MISS M. DIANNE, Palatine, Illinois: bird—Illinois (gift)
- MC ALLISTER, MRS. JESSIE R., Gary, Indiana: collection of sea shells—Florida (gift)

MCDANIEL, BURRUSS, JR., College Station, Texas: 2 mites—Mexico (gift)

MCMICHAEL, DR. D. F., Sydney, Australia: 18 landsnails—West Australia (gift)

MEIER, CLAUS, Falkau, Germany: 37 sets of freshwater mollusks—Central Europe (exchange); 265 nonmarine mollusks—Western Europe (exchange)

MENZIES, DR. J. I., Bo, Sierra Leone: 33 amphibians and reptiles—Sierra Leone (gift)

MERUBIA, HENRY, Evanston, Illinois: 234 insects—Bolivia (gift)

METTER, DEAN E., Moscow, Utah: 14 frog larvae—Washington (gift)

MIAMI, UNIVERSITY OF, Coral Gables, Florida: 6 fishes—Bahamas (gift)

MINTON, DR. SHERMAN, JR., care of APO New York: 12 lizards, 6 snakes—Pakistan (gift)

MUSEO ARGENTINO DE CIENCIAS NATURALES, Buenos Aires, Argentina: 4 mammals—Argentina (exchange)

MUSEO CIVICO DE STORIA NATURALE, Genoa, Italy: 70 nonmarine mollusks—Indonesia and New Guinea (exchange)

MUSEO DE HISTORIA NATURAL DE MONTEVIDEO, Montevideo, Uruguay: 3 lizards—Uruguay (exchange)

MUSEUM AND ART GALLERY, Durban, Union of South Africa: 4 birds—Africa (exchange); 7 birds—Africa (gift)

MUSEUM OF COMPARATIVE ZOOLOGY, Cambridge, Massachusetts: salamander—Tennessee (exchange); frog—Thailand (exchange)

MUSEU RIOGRANDENSE DE CIENCIAS NATURAIS, Rio Grande do Sul, Brazil: 8 amphibians and reptiles—Brazil (exchange)

NATIONAL MUSEUMS OF SOUTHERN RHODESIA, Bulawayo, Southern Rhodesia: 2 birds—Southern Rhodesia (gift); 12 amphibians and reptiles—Southern Rhodesia (exchange)

NATURHISTORISCHES MUSEUM, Vienna, Austria: 2 frogs—Sumatra (exchange)

NELSON, DR. EDWARD M., San Juan, Puerto Rico: collection of various invertebrate animals—Puerto Rico (gift)

NEWBILL, THOMAS J., Ft. Lauderdale, Florida: 4 birds—Florida, Colombia, and Ecuador (gift)

NOEL, EMIL, Chicago: 4 sea urchins—Florida (gift)

ORIENTAL INSTITUTE, University of Chicago, Chicago: 41 mammals, 10 birds—Iran (gift)

PASTEUR, DR. GEORGES, Rabat, Morocco: 8 amphibians and reptiles—Algeria, Madagascar, and Morocco (exchange)

PINE, RONALD H., Lawrence, Kansas: 57 mammals—western United States (gift)

POYNTON, DR. J. C., Pietermaritzburg, Natal: 48 frogs—Africa (exchange)

PRICE, L., Kaitaia, New Zealand: 60 sets of nonmarine mollusks—Australia and New Zealand (exchange)

PRICE, DR. MANNING D., College Station, Texas: 19 insects—Guatemala and Mexico (exchange)

QUIMBY, GEORGE I., Chicago: 67 shells—Lake Michigan (gift)

RAFFLES MUSEUM, Singapore: frog—North Borneo (exchange)

RANDALL, DR. JOHN E., St. John, Virgin Islands: 4 fishes—Virgin Islands (gift)

REED, DR. CHARLES A., New Haven, Connecticut: 40 landsnails, plaster casts of deer—Iran (gift)

RETTEMEYER, CARL, Manhattan, Kansas: 4 beetles—Nigeria (gift)

RIEDEL, DR. A., Warsaw, Poland: 36 nonmarine mollusks—Peru, Poland, and Siberia (exchange)

RIJKSMUSEUM VAN NATUURLIJKE HISTOIRE, Leiden, Netherlands: frog—Sumatra (exchange)

ROCKY MOUNTAIN LABORATORY, Hamilton, Montana: 22 chigger mites—Panama and Peru (gift)

ROSCOE, ERNEST J., Chicago: 226 lots of land and freshwater mollusks—western United States (gift)

SABINE, TED, Zion, Illinois: 726 insects and related arthropods—Central and South America (gift)

SARAWAK MUSEUM, Kuching: 3 frogs, 5 tadpoles—Sarawak (exchange)

SCHERPELTZ, DR. OTTO, Vienna, Austria: 12 insects—Europe (gift)

SILVA-TABOADA, GILBERTO, Havana, Cuba: 31 mammals—Cuba (exchange); 2 mammals—Cuba (gift)

SUMMERS, RAY, Petaluma, California: marine snail—Philippine Islands (gift)

SWEGLER, KYLE V., Chicago: 88 lizards—Caribbean Sea (gift)

TALMADGE, ROBERT, Willow Creek, California: 77 mollusks—western America (exchange); 149 shells—California and Lower California (exchange)

TESKEY, MRS. MARGARET, Marinette, Wisconsin: approximately 14,000 non-marine mollusks—world-wide (gift)

TINKLE, DR. DONALD W., Lubbock, Texas: 2 snakes—Texas (gift)

UNDERWOOD, GARTH, Saint Augustine, Trinidad, British West Indies: mammal—Jamaica (gift)

UNITED STATES FISH AND WILDLIFE SERVICE, Cold Bay, Alaska: 5 birds—Amchitka, Aleutian Islands (gift); Pascagoula, Mississippi: 430 fishes—Gulf of Mexico (gift)

UNITED STATES NATIONAL MUSEUM, Washington, D.C.: 19 beetles—Central and South America (exchange)

UTAH, UNIVERSITY OF, Salt Lake City: 133 freshwater clams—Utah (exchange)

VANZOLINI, DR. P. E., São Paulo, Brazil: lizard—Brazil (exchange)

VISSER, JOHN, Camps Bay, South Africa: 17 frogs—South Africa (exchange)

WALKER MUSEUM, UNIVERSITY OF CHICAGO, Chicago: approximately 4,000 snails—world-wide (gift)

WALTON, M. L., Glendale, California: 4 landsnails—California (exchange)

WERNER, DR. FLOYD, Tucson, Arizona: 3 beetles—California, and Lower California (gift)

WIRTH, DR. WILLIS W., Washington, D.C.: 43 slides of biting midges—Thailand and United States (gift)

WORLD BOOK ENCYCLOPEDIA SCIENTIFIC EXPEDITION TO THE HIMALAYAS, Chicago: 7 mammals—Nepal and Tibet (gift); 375 birds—Nepal (gift)

WYATT, ALEX K., Chicago: 24,644 butterflies and moths—chiefly North America (gift)

YUNKER, DR. CONRAD E., Canal Zone, Panama: 28 amphibians and reptiles—Panama (exchange); 61 amphibians and reptiles—Panama (gift)

ZANGERL, DR. RAINER, Hazel Crest, Illinois: 38 frogs—various localities (gift)

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 Asher, Frederick  
 Asher, Norman  
 Asher, Dr. Sidney  
 Atwood, Carl E.  
 Auer, George A.  
 Augur, Allison L.  
 Augustus, Mrs. Helen A.  
 Aurelius, Mrs. Marcus A.  
 Ause, Orval H.  
 Austin, William F., III  
 Avery, George J.  
 Avery, Guy T.  
 Avery, William H.  
 Axelrad, Mrs. Milton S.  
 Ayres, Robert B.  
 Babbitt, Mrs. Oscar  
 Babson, Mrs. Gustavus  
 Back, Miss Maude F.  
 Bacon, Dr. Alfons R.  
 Bacon, R. H.  
 Bade, Miss Florence  
     Harriett  
 Baer, David E.  
 Baffes, Dr. Thomas G.  
 Baggaley, William Blair  
 Baker, Paul E.  
 Bailey, George R.  
 Bair, W. P.  
 Bairstow, Mrs.  
     Harry, Jr.  
 Baker, Greeley  
 Baldwin, Mrs. Amy G.  
 Baldwin, Rosecrans  
 Baldwin, Vincent Curtis  
 Balgemann, Otto W.  
 Balkin, Louis  
 Ball, Clayton G.  
 Ball, Dr. Fred E.  
 Ball, Ralph K.  
 Ballard, Mrs. Ernest H.  
 Ballard, Mrs. Foster K.  
 Ballenger, A. G.  
 Ballis, S. R.  
 Balluff, Louis N.  
 Baltis, Walter S.  
 Banker, O. H.  
 Banks, Dr. Seymour  
 Bannister, Miss  
     Ruth D.  
 Barancik, Richard M.  
 Barber, Phil C.  
 Barbera, Joseph  
 Barden, Horace G.  
 Bardwell, William U.  
 Bargquist, Miss  
     Lillian D.  
 Barker, E. C.  
 Barkhausen, Mrs.  
     Henry G.  
 Barkhausen, L. H.  
 Barlow, John T.  
 Barnard, George Hugh  
 Barnes, Cecil  
 Barnes, Mrs. John S.

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Barnes, Miss Lilace Reid  
 Barnett, Claude A.  
 Barney, Albert S.  
 Barnhart, Mrs. A. M.  
 Barr, Mrs. Alfred H.  
 Barr, George  
 Barrett, Mrs. Arthur M.  
 Barry, Mrs. Scammon  
 Barson, Dr. Lloyd J.  
 Barsumian, Edward L.  
 Bartel, Thomas B.  
 Barthell, Gary  
 Bartholomae, Mrs.  
     Emma  
 Bartholomay, Mrs.  
     William, Jr.  
 Bashore, Mrs. Helen  
 Basile, A. R.  
 Basile, William B.  
 Basinger, Paul J.  
 Basta, George A.  
 Bates, Dr. A. Allan  
 Bates, Mrs. A. M.  
 Bates, Rex J.  
 Battey, Paul L.  
 Baum, Dr. Hugo C.  
 Baum, Wilhelm  
 Baumann, Harry P.  
 Bausch, William C.  
 Bayly, Dr. Melvyn A.  
 Beach, Miss Bess K.  
 Beach, E. Chandler  
 Beach, George R., Jr.  
 Beachy, Mrs. Walter F.  
 Beatty, John T.  
 Becherer, Robert C.  
 Beck, Alexander  
 Becker, Edward C.  
 Becker, Mrs. Ethel G.  
 Becker, James H.  
 Becker, Louis L.  
 Becker, Max  
 Becker, Mrs. S. Max, Jr.  
 Beckler, R. M.  
 Beckman, Mrs. Victor A.  
 Beckstrom, Miss  
     Lucile M.  
 Beddoes, Hubert  
 Beebe, Dr. Robert A.  
 Behr, Carlton E.  
 Behr, Mrs. Edith  
 Beidler, Francis II  
 Belding, Mrs. H. H., Jr.  
 Belinky, Walter  
 Bell, Chauncey M.  
 Bell, J. Delos  
 Bellizzi, Dr. Alfredo  
 Bellows, Jason Ernest  
 Belmonte, Dr. John V.  
 Belnap, Nuel D.  
 Bender, Eric

Benjamin, Jack A.  
 Benner, Harry  
 Bennett, Bertram W.  
 Bennett, Clinton C.  
 Bennett, Edward H., Jr.  
 Bennett, Dr. H. Stanley  
 Bennett, S. A.  
 Bennett, Professor  
     J. Gardner  
 Benson, John  
 Benson, Mrs.  
     Thaddeus R.  
 Berc, Harold T.  
 Beré, Lambert  
 Berend, George F.  
 Berens, Alfred S.  
 Berens, Dr. David G.  
 Bergen, Mrs. G. L.  
 Bergfors, Emery E.  
 Bergman, Arthur W.  
 Berkely, Dr. J. G.  
 Bernstein, Samuel  
 Bernstein, Saul  
 Berry, V. D.  
 Bersbach, Elmer S.  
 Bertschinger, Dr. C. F.  
 Berwanger, Jay  
 Besly, Mrs. C. H.  
 Bettendorf, Harry J.  
 Bettman, Dr. Ralph B.  
 Betts, David H.  
 Betz, Carl E.  
 Bichl, Thomas A.  
 Biddle, Robert C.  
 Biedermann, Lee F.  
 Biehni, Dr. J. F.  
 Bielinski, Dr. Henry E.  
 Biersborn, Charles F.  
 Bigelow, Mrs. Ann  
 Biggers, Bryan B.  
 Biggs, Mrs. Joseph H.  
 Bigler, Dr. John A.  
 Bikle, W. E.  
 Billow, Miss Virginia  
 Billsten, Henry A.  
 Bimmerle, Dr. John F.  
 Binder, Miss Kay  
 Birch, Dr. Carroll L.  
 Bird, Miss Frances  
 Bishop, Howard P.  
 Bittel, Mrs. Frank J.  
 Bittrich, Miss Grace  
 Bixby, Edward Randall  
 Bixby, Frank L.  
 Bixby, George, Jr.  
 Bjork, Eskil I.  
 Black, Dr. Chester J.  
 Blackburn, Oliver A.  
 Blaine, James B.  
 Blair, Miss  
     Anita Carolyn

Blair, Bowen  
 Blair, Edward  
     McCormick  
 Blair, John M.  
 Blair, Wm. McCormick  
 Blair, Wolcott  
 Blanksten, Samuel B.  
 Blatchford, Dr. Frank  
     Wicks  
 Blecker, Mrs.  
     Michael, Jr.  
 Blessing, Mrs. Lewis G.  
 Blish, Charles C.  
 Bliss, Vincent R.  
 Block, Joseph L.  
 Block, Leigh B.  
 Block, Mrs. Leigh B.  
 Block, Nelson C.  
 Block, Philip D., Jr.  
 Block, Samuel W.  
 Bloss, Mrs. Sidney M.  
 Bluford, Mrs. David  
 Blumenschein, C. M.  
 Blumenthal, Dr. Irving  
 Blumenthal, Milton M.  
 Blunt, J. E.  
 Boal, Stewart  
 Boal, Thomas  
 Bobrinskoy, Mrs. George V.  
 Bodjanac, Stephen  
 Bodman, Robert E.  
 Bodman, W. S.  
 Boe, Archie R.  
 Boericke, Mrs. Anna  
 Boetcher, John E.  
 Boettcher, Arthur H.  
 Bogert, George T.  
 Bogert, Mrs. Gilbert P.  
 Bohac, Ben F.  
 Bohasseck, Charles  
 Bohne, Carl J., Jr.  
 Bolotin, Gerald G.  
 Bolten, Paul H.  
 Bondy, Berthold  
 Bonine, Miss Ada  
 Boomer, Dr. Paul C.  
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 Booth, George E.  
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     Robert T.  
 Borg, George W.  
 Bori, Mrs. Albert V.  
 Borland, Mrs.  
     John Jay, II  
 Borland, William F.  
 Borowitz, David  
 Borwell, Robert C.  
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 Bosch, Mrs. Henry  
 Boss, Sidney M.

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- Bosworth, Mrs.  
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Bowers, Ralph E.  
Bowersox, W. A.  
Bowes, Arthur S.  
Bowman, Mrs. E. M.  
Bowman, J. C.  
Bowman, Johnston A.  
Boyd, Mrs. T. Kenneth  
Boyer, Paul F.  
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Bradley, Mrs. A. Ballard  
Bradley, John R.  
Bradley, Roy D.  
Bradway, Malcolm S.  
Brainerd, Mrs. Arthur T.  
Bramble, Delhi G. C.  
Branch, Judson B.  
Brandel, Miss Carola R.  
Brandenburg, John A.  
Brandt, Charles H.  
Brandt, William A.  
Bransfield, John J.  
Bransfield, John J., Jr.  
Braucher, Ralph L.  
Brauer, Mrs. Paul  
Braun, Dr. L. L.  
Braun, Martin H.  
Braun, Dr. Milton  
Bremner, Mrs. David F.  
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Brennan, B. T.  
Brenner, S. L.  
Brennom, Dr. Elmo F.  
Breslin, Dr. Winston I.  
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Bridges, Arnold  
Briggs, George L.  
Bristol, James T.  
Brock, Donald C.  
Brodie, Miss Laura  
Brodribb, Lawrence C.  
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Brostoff, Harry M.  
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Brown, Baird  
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- Brown, Warren W.  
Brown, William F.  
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Brunell, Albert H.  
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Brunsvold, Mrs.  
Henrietta A.  
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Brunswick, Larry  
Brust, Paul W.  
Bryant, John J.  
Bua, Nicholas J.  
Buchanan, Eugene D.  
Buchanan, L. B.  
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Buchen, Paul J.  
Buchen, Mrs.  
Walther H.  
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Bucklin, Mrs. Vail R.  
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Buddington, Robert M.  
Budrys, Dr. Stanley  
Buechler, Adolph  
Buehler, A. C., Jr.  
Buehler, H. L.  
Buehler, Robert  
Buettner, Walter J.  
Buffardi, Louis  
Bulley, Allen E.  
Bund, Marcus  
Bunn, B. H.  
Bunn, C. M.  
Bunte, Mrs. Theodore W.  
Burbott, E. W.  
Burch, Clayton B.  
Burchmore, John S.  
Burd, James E.  
Burg, Harry  
Burgweger, Mrs.  
Meta Dewes  
Burke, Mrs. Edmund L.  
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Burnham, Mrs. George  
Burnham, Joseph A.  
Burns, Mrs. Randall W.  
Burrows, Robert S.  
Burry, William  
Burwell, Mrs.  
Dorothy M.  
Busch, David T.  
Bush, Earl J.  
Bush, Mrs. William H.  
Butler, Mrs. Coula P.  
Butler, George W.  
Butler, John C.  
Butler, Paul  
Butzow, Mrs. Robert C.
- Byrne, Miss Margaret H.  
Cahn, Dr. Alvin R.  
Cahn, Morton D.  
Caiazza, Theodore M.  
Cainkar, Louis F.  
Caine, Leon J.  
Caldwell, Wallace B.  
Call, Edgar J.  
Callender, Mrs.  
Joseph E.  
Calvin, Mrs. H. L.  
Camenisch, Miss  
Sophia C.  
Cameron, Anson W.  
Cameron, Mrs.  
John Wheaton  
Cameron, William T.  
Camp, J. Beidler  
Campbell, Donald F., Jr.  
Campbell, George V.  
Campbell, Hugh  
Campbell, John Noble  
Canby, Caleb H., Jr.  
Canman, Richard W.  
Canmann, Mrs.  
Harry L.  
Capes, Miss Alice G.  
Caples, William G.  
Capps, Dr. Joseph A.  
Carey, Mrs. Charles  
Carlen, Raymond N.  
Carlin, Leo J.  
Carlisle, Mrs. William T.  
Caron, O. J.  
Carqueville, Mrs. A. R.  
Carr, Rear Admiral B. L.  
Carr, Robert A.  
Carr, Mrs. Robert F.  
Carroll, John A.  
Carroll, J. B.  
Carstens, Milton Searle  
Carter, Mrs. Armistead B.  
Carter, Miss Frances  
Jeannette  
Carton, Laurence A.  
Carton, Dr. Robert W.  
Caspers, Paul  
Cassady, Thomas G.  
Castruccio, Giuseppe  
Cathcart, Silas S.  
Caywood, Thomas E.  
Cederlund, R. Stanley  
Cerling, Fredolph A.  
Cernoch, Frank  
Cerny, Mrs. Jerome  
Cervenka, Carl  
Chandler, Henry P.  
Chandler, Marvin  
Chapin, William Arthur  
Chapman, Arthur E.



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- Chapman, Dave  
 Chapman, Richard R.  
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 Chazanow, George  
 Cheney, Dr. Henry W.  
 Chenier, Miss Mizpah  
 Cherones, George D.  
 Cherry, Walter L., Jr.  
 Chester, W. T.  
 Chiara, Anthony R.  
 Childs, Leonard C.  
 Chilgren, Arthur D.  
 Chinlund, Miss Ruth E.  
 Chorn, William G.  
 Christensen, Robert W.  
 Christian, John F.  
 Christiansen, Dr. Henry  
 Christopher, Dr. G. L.  
 Christy, Dr. Harold W.  
 Chulock, Willmar A.  
 Churan, Charles A.  
 Church, Mrs. Freeman S.  
 Clark, Mrs. Alice Dargan  
 Clark, Mrs. Edward S.  
 Clark, Edwin H.  
 Clark, Dr. James Wilson  
 Clarke, Charles F.  
 Clarke, Ernest E.  
 Clarke, Dr. T. Howard  
 Clay, John  
 Clement, Howard W.  
 Clement, James W.  
 Clements, George L.  
 Clifford, Fred J., Jr.  
 Clifford, J. S.  
 Clinch, Duncan L.  
 Cline, Lyle B.  
 Clonick, Abraham J.  
 Clonick, Herbert J.  
 Clonick, Seymour E.  
 Close, James W.  
 Clough, Herbert W.  
 Clovis, Paul C., Sr.  
 Clow, Miss Marion  
 Cluxton, Dr.  
     Harley E., Jr.  
 Coale, William F., Jr.  
 Coates, E. Hector  
 Coates, John M.  
 Coath, V. W.  
 Coburn, Maurice W.  
 Cochran, John L.  
 Coey, David R.  
 Coghlan, Mrs. David L.  
 Cohen, George B.  
 Cohen, Mrs. L. Lewis  
 Cohen, S. T.  
 Cohn, Aaron H.  
 Coldiron, Harry A.  
 Cole, John W.  
 Cole, Sidney I.  
 Coleman, Clarence L., Jr.  
 Coleman, Dr. George H.  
 Coleman, Mrs. John  
 Coleman, Loring W.  
 Coleman, Marvin H.  
 Collias, Philip J.  
 Collins, Beryl B.  
 Collison, E. K.  
 Colnon, Stuart  
 Colvin, Miss Bonnie  
 Colvin, Miss Jessie  
 Colwell, Clyde C.  
 Combs, Earle M., Jr.  
 Compton, Mrs.  
     Arthur H.  
 Compton, D. M.  
 Cone, Mrs. R. E.  
 Conger, Miss Cornelia  
 Conklin, Miss Shirley  
 Conley, Philip  
 Conlin, Andrew F.  
 Connell, P. G.  
 Connery, John  
 Connors, Mrs. Thomas A.  
 Conover, Miss  
     Margaret B.  
 Cook, Mrs. Charles B.  
 Cook, Mrs. David S.  
 Cook, Jonathan Miller  
 Cook, Junius F., Jr.  
 Cook, L. Charles  
 Cook, Leslie H.  
 Cook, Dr. Richard S.  
 Cook, Thomas H.  
 Cooke, Dr. Pauline M.  
 Cooley, Gordon A., Sr.  
 Coolidge, Dr. Edgar D.  
 Coombs, James F.  
 Coonley, John Stuart  
 Coonley, Prentiss L.  
 Cooper, Lee  
 Cooper, Samuel  
 Cooper, S. Robert  
 Copland, David  
 Corbett, Mrs. William J.  
 Cordray, Mrs. David P.  
 Corrington, John W.  
 Cosford, Thomas H.  
 Costanzo, Dr. Vincent A.  
 Costanzo, Dr.  
     Vincent A., Jr.  
 Costello, A. B.  
 Costello, Dr. Lorne  
 Coston, James E.  
 Cottle, Dr. Maurice H.  
 Cotton, Eugene  
 Coulon, Dr. Albert E.  
 Coulson, John S.  
 Coulter, Mrs. J. R.  
 Cowan, Ralph  
 Cowen, Miss Edna T.  
 Cowen, Dr. Jack P.  
 Cowen, Maurice L.  
 Cowles, Knight C.  
 Cox, Clifford B.  
 Cragg, Mrs. George L.  
 Craig, George M.  
 Crain, G. D., Jr.  
 Cram, Mrs. Norman  
 Crawford, Henriques  
 Crawford, W. F.  
 Creange, A. L.  
 Cretors, Charles J.  
 Criel, Theodore A., Jr.  
 Crohn, Miss Natalie  
 Cromwell, Miss  
     Juliette Clara  
 Cross, Robert C.  
 Cryor, Robert E.  
 Cubbins, Dr. William R.  
 Cudahy, Edward I.  
 Culbertson, James G.  
 Cullen, J. A.  
 Culmer, Dr. Charles U.  
 Culver, Sydney K.  
 Cummings, Mrs. D. Mark  
 Cummings, Edward M.  
 Cummings, Mrs.  
     Frances S.  
 Cump, Percy W., Jr.  
 Cuneo, John F.  
 Cunningham, J. Lester  
 Cunningham, Seymour S.  
 Curtis, Austin  
     Guthrie, Jr.  
 Curtis, Glenn R.  
 Cusack, Harold  
 Cushing, John Caleb  
 Cushman, Barney  
 Cutler, Paul William  
 Cutter, Charles F.  
 Dabasinskas, Walter  
 Daemicke, Mrs.  
     Irwin Paul  
 Dahl, Miss Bernice  
 Dahlberg, Wendell  
 Dahlin, Carl A.  
 Daily, Orville G.  
 Daily, Richard  
 Daley, Harry C.  
 Dalmar, Mrs. Hugo  
 Dalmar, Hugo, Jr.  
 Daly, James J.  
 Dammann, J. F.  
 Dangel, W. H.  
 Danielson, Philip A.  
 Danley, Jared Gage  
 Danne, William C., Jr.  
 Dantzig, Leonard P.  
 Dapples, George H.  
 D'Aquila, George

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Darbo, Howard H.	Dixon, Mrs. William Warren	Eastman, Mrs. George H.
Darby, John H.	Dobyns, Mrs. Henry F.	Eaton, J. Frank
Daughaday, C. Colton	Doctor, Isidor	Ebbbers, Todd A.
Davidson, D. E.	Dodge, Mrs. Paul C.	Ebeling, Frederic O.
Davidson, Louis G.	Dolan, Tom	Ebert, Carl H.
Davies, Marshall	Dole, John L.	Ebin, Mrs. Dorothy Mylrea
Davies, Trevor L.	Dolke, W. Fred	Ebbery, Miss Joan
Davis, Arthur	Domville, Mrs. Millington	Eckert, Theodore T.
Davis, C. S.	Donlon, Mrs. Stephen E.	Eddy, Alfred K.
Davis, DeForest Paine	Donnel, Mrs. Curtis, Jr.	Edelson, Dave
Davis, Don L.	Donnelley, Elliott	Edelson, Mitchell, Jr.
Davis, Frank S.	Donnelley, Mrs. H. P.	Edwards, Miss Edith E.
Davis, Dr. Joseph A.	Donohue, Edgar T.	Edwards, G. H.
Davis, Dr. Loyal	Doody, Miss Kitty	Edwards, William C.
Davis, Morton A.	Doolittle, John R.	Eger, Gerard J.
Dawes, Charles C.	Dornbusch, Charles H.	Ehrlich, Stanton L.
Dawson, John H.	Dorocke, Joseph, Jr.	Eichengreen, Edmund K.
Dean, Mrs. S. E., Jr.	Dorsey, John K.	Eichler, Robert M.
Deardorff, Merle S.	Dotson, Mrs. Heber T.	Eiseman, Fred R.
Decker, Charles O.	Doucette, Robert J.	Eisenberg, Sam J.
De Costa, Lewis M.	Douglas, James H., Jr.	Eisendrath, Edwin W.
de Dardel, Carl O.	Douglass, H. James	Eisendrath, Miss Elsa B.
Deeming, W. S.	Douglass, Mrs. Helen James	Eisenhower, Earl D.
Deis, Mrs. Thomas P.	Douglass, Kingman	Eisenschiml, Mrs. Otto
Delaney, Frederick A.	Dover, S. M.	Eisenstein, Sol
DeLarye, Dr. William L.	Doyon, Robert Gale	Elcock, Mrs. Edward G.
DeLay, Frank P.	Drago, Stephen	Eldred, Mrs. Harriot W.
Delp, Larry	Drake, Charles R.	Ellbogen, Miss Celia
Demaree, H. S.	Drake, Robert T.	Ellies, E. E.
Deming, Everett G.	Drake, Mrs. R. Taylor	Elliott, Mrs. Edwin P.
Denis, Stanley T.	Drangsholt, Mrs. Gunnar S.	Elliott, Miss Grace E.
Denney, Ellis H.	Dreutzer, Carl	Ellis, Mrs. G. Corson
Deree, William S.	Drever, Thomas	Ellis, Howard
Dern, James G.	Dreyfuss, Mrs. Moise	Elmer, Mrs. Clarence W.
Desgrey, Charles W.	Dry, Carl	Elting, Winston
Des Isles, Mrs. Carrie L.	Dubbs, C. P.	Elvgren, Gillette A.
Detmer, John F.	Duclos, George A.	Emanuelson, Conrad R.
De Trana, Dr. George	Dudak, Mrs. Anna	Embree, Henry S.
Deutsch, Mrs. Percy L.	Dudley, Laurence H.	Embree, J. W., Jr.
Devine, Matthew L.	Duffy, James F.	Emery, Edward W.
De Vries, David	Dukelow, Mrs. Madelina	Emmerich, Miss Clara L.
DeWitt, Clyde F.	Dulla, Steven G.	Engberg, Miss Ruth M.
DeWitt, Dennis	Dulsky, Mrs. Samuel	Engelman, Mrs. Robert S.
Dick, A. B., III	Dumelle, Frank C.	English, Harold
Dick, Elmer J.	Dunbar, James H., Jr.	English, William L.
Dick, Robert	Dunbaugh, Harry J.	Engstrom, Harold
Dick, Mrs. Robert F.	Duncan, Albert G.	Entsminger, Samuel E.
Dickinson, F. R.	Duner, Joseph A.	Epstein, Harvey
Dickson, Vincent B.	Dunlap, William E.	Epstein, Herman L.
Diggs, Mrs. N. Alfred	Dunlop, Charles	Erickson, L. Hyland
Diestel, Mrs. Herman	Dunlop, Mrs. Simpson	Erickson, Mrs. Chester F.
Dietch, Henry X.	Dunphy, Charles S.	Ericsson, Clarence
Diller, Robert	Durand, Mrs. N. E.	Ericsson, Dewey A.
Diller, Theodore C.	Dvonch, Dr. William J.	Ericsson, Walter H.
Dillie, James P.	Dyer, Robert T.	Erikson, Carl A.
Dimick, Miss Elizabeth	Easterberg, C. J.	Erman, Walter
Dimmer, Miss Elizabeth G.		Ernest, Joseph R.
Dixon, George W., Jr.		Ernst, Mrs. Leo
Dixon, Wesley M., Jr.		Escudier, A. F.
		Esgar, R. Rea

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- Ettelson, Jerome  
     Lawrence  
 Etten, Henry C.  
 Evans, Miss Anna B.  
 Evans, Eliot H.  
 Evans, Keith J.  
 Evans, Vernon K.  
 Everett, William S.  
 Evers, John W.  
  
 Faber, Milton D.  
 Fabrice, Edward H.  
 Fack, Mrs. George P.  
 Factor, Mrs. Jerome  
 Fader, A. L.  
 Fairweather, Dr. D. H.  
 Faherty, Roger  
 Faithorn, Walter E.  
 Falk, Dr. Alfred B.  
 Falk, Ralph, II  
 Falls, Dr. A. G.  
 Farley, Preston  
 Farnham, Mrs. Harry J.  
 Farrell, Mrs. B. J.  
 Farrell, Mrs. Ernest H.  
 Farwell, Albert D.  
 Farwell, John V., III  
 Faurot, Henry, Jr.  
 Faust, Harry C.  
 Fay, Eugene C.  
 Febhardt, Mrs. Ernest A.  
 Feinstein, Edward  
     Howard  
 Feiwel, Morris E.  
 Fell, Dr. Egbert H.  
 Fellows, William K.  
 Felsenthal, Edward  
     George  
 Fennekohl, Mrs.  
     Arthur C.  
 Ferguson, R. W.  
 Fernald, Robert W.  
 Ferry, Mrs. James H., Jr.  
 Fetzner, Wade, Jr.  
 Fiduccia, Charles B.  
 Field, John S.  
 Field, Meyer  
 Fiffer, Robert S.  
 Fillerman, Arthur  
 Filkins, A. J.  
 Fineman, Oscar  
 Fink, Mrs. Frank  
 Finley, Max H.  
 Finnerud, Dr. Clark W.  
 Firsell, Maurice S.  
 Fish, Mrs. Helen S.  
 Fishbein, Dr. Morris  
 Fisher, Mrs. Raymond  
 Fisk, Mrs. Burnham M.  
 Fiske, Kenneth M.  
  
 Fitzmorris,  
     Mrs. Charles C., Sr.  
 Fitzmorris, James  
 Fitz Simmons, Dr. J.  
 Flagg, Miss Grace S.  
 Flanagan, James F.  
 Fleischman, Miss Anne  
 Fleming, E. I.  
 Fleming, Mrs. Joseph B.  
 Fletcher, Joseph  
 Fletcher, Mrs. Mildred C.  
 Flinn, Walter H., Jr.  
 Flint, George M.  
 Florian, Anton G.  
 Florsheim, Harold M.  
 Florsheim, Irving S.  
 Flowers, Dr. Vladimir C.  
 Foell, W. J.  
 Follansbee, Rogers  
 Follett, Dwight  
 Colonie, Mrs. Robert J.  
 Folsom, Mrs. William R.  
 Foote, Mrs. Harley T.  
 Forch, Mrs. John L., Jr.  
 Ford, Mrs. Willis Roland  
 Foreman, Alfred K., Jr.  
 Foreman, Edwin G., Jr.  
 Foreman, Harold E.  
 Forgan, Mrs. J. Russell  
 Forgan, Robert D.  
 Forman, Charles  
 Forster, J. George  
 Fort, George A.  
 Fortune, Miss Joanna  
 Foster, Mrs. Charles K.  
 Foster, Robert S.  
 Fowle, Frank F.  
 Fowler, Mrs. Earle B.  
 Fox, Clarence E.  
 Fox, Jacob Logan  
 Fox, Myron H.  
 Fox, Dr. Paul C.  
 Franche, Mrs. D. C., III  
 Frank, Arthur A.  
 Franke, Allyn J.  
 Frankel, Jones B.  
 Frankel, Louis  
 Frankenstein, Lester E.  
 Frankenstein, William B.  
 Franklin, G. K.  
 Fraser, Edward S.  
 Frasier, Richard C.  
 Frazer, Mrs. George E.  
 Freda, Dr. Vincent C.  
 Frederick, Mrs.  
     Clarence L.  
 Freeman, Gaylord A.  
 Freeto, Clarence E.  
 Freiler, Abraham J.  
 Frenier, A. B.  
 Freudenthal, G. S.  
  
 Freund, Mrs. I. H.  
 Freund, Mrs. J. Dennis  
 Frey, Charles Daniel  
 Freyn, Henry J.  
 Fridstein, Meyer  
 Friedberg, Dr. Stanton A.  
 Friedlander, William  
 Friedlich, John  
 Friedman, Norman B.  
 Friedman, Raphael N.  
 Fritsch, Miss Josephine  
 Frye, W. P.  
 Frystak, A. J.  
 Fucik, E. Montford  
 Fuller, Mrs. Gretta  
     Patterson  
 Fuller, J. E.  
 Fuller, Judson M.  
 Fuller, Perry L.  
 Fullerton, Thomas  
 Fulton, Paul C.  
 Fyanes, F. D.  
  
 Gabriel, Adam  
 Gaertner, William  
 Gainer, Walter D.  
 Gale, Willis  
 Galgano, John H.  
 Gall, Frank  
 Gall, Harold J. F.  
 Gall, Harry T.  
 Gallup, Rockwell L.  
 Galt, Mrs. Anne  
     Rickcords  
 Galt, Mrs. A. T.  
 Gamble, D. E.  
 Gamble, E. Ross  
 Gamm, Dr. Stanford R.  
 Garcia, José  
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 Gardner, F. Sewall  
 Gardner, Frederick D.  
 Gardner, Henry A.  
 Gardner, Henry K.  
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 Gay, Rev. A. Royall  
 Gebhardt, Alfred E.  
 Gee, James W.  
 Gehl, Dr. W. H.  
 Geiling, Dr. E. M. K.  
 Geist, Herbert  
 Geittmann, Dr. W. F.  
 Geldmeier, Dr. Erwin F.  
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 Gensburg, Samuel H.

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   Sidney H.  
 Gettleman, Arthur  
 Gettleman, Frank E.  
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 Getz, Mrs. James R.  
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 Gibbs, Richard F.  
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 Gidwitz, Victor E.  
 Gidwitz, Willard  
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 Gifford, Mrs.  
   Frederick C.  
 Gilchrist, Mrs. John F.  
 Gilchrist, Mrs. William  
   Albert  
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 Gillett, W. N.  
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 Glassner, James J.  
 Glenn, Miss Terry  
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 Gluck, Gerson, I.  
 Glore, Robert Hixon  
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 Goldstein, Dr. Helen L.  
   Button  
 Goldstein, Nathan S.  
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 Goltra, Mrs. William B.  
 Gomberg, Dr. Harry  
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 Goodman, Benedict K.  
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 Gordon, Edward  
 Gordon, Harold J.  
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 Gordon, Dr. Richard J.  
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 Graham, Douglas  
 Graham, E. V.  
 Graham, Miss  
   Margaret H.  
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 Grant, James D.  
 Grant, John G.  
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 Graves, Howard B.  
 Grawoig, Allen  
 Grawols, G. L.  
 Gray A. S.  
 Gray, Dr. Earle  
 Gray, Edward  
 Gray, Philip S.  
 Greeley, Joseph M.  
 Green, Howard E.  
 Green, Michael  
 Greenburg, Dr. Ira E.  
 Greene, Henry E.  
 Greene, Howard T.  
 Greene, Wesley H.  
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   Brooks  
 Greenman, Mrs. Earl C.  
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 Gregg, Clarence T.  
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 Gregory, Stephen S., Jr.  
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 Griffenhagen, Mrs.  
   Edwin O.  
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 Groot, Cornelius J.  
 Grosberg, Charles  
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 Grote, Russell H.  
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 Guernsey, Mrs. Nellie T.  
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 Guetzkow, Harold S.  
 Guldager, Carl D.  
 Gunlock, V. E.  
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 Gustafson, Carl I.  
 Gustafson, Gilbert E.  
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   Winfield A.  
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 Hailand, Arthur G.  
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 Hansen,  
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 Hansen, Jacob W.



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 Harding, Miss  
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     Mrs. Mortimer B.  
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 Harwood, Thomas W.  
 Hass, G. C.  
 Hass, Miss Harriet E.  
 Hassmer, Joseph L.  
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 Hawkes, Joseph B.  
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 Hecht, Kenneth G.  
 Hecht, Myron A.  
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 Henschel, Edmund C.  
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 Herbst, LeRoy B.  
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 Herman, Richard P.  
 Hermann, Grover M.  
 Herron, James C.  
 Herron, Mrs. Oliver L.  
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 Herz, J. H.  
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 Hirsch, Edwin W.  
 Hirsch, LeRoy E.  
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 Histed, J. Roland  
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     Charles R., Jr.  
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     Elizabeth  
 Hoffman, Edward  
     Hempstead  
 Hoffmann, Dr. Eugene  
 Hoffman, Raymond A.  
 Hogan, Robert E.  
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 Hokin, Edwin E.  
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 Holden, Edward A.  
 Holderby, Glen W.  
 Holinger, Dr. Paul H.  
 Holland, M. J.  
 Hollander, Mrs. Samuel  
 Holleb, Marshall M.  
 Holleb, A. Paul  
 Hollenbach, Louis  
 Holliday, W. J.  
 Hollins, Gerald  
 Holloway, Allen D.  
 Holloway, Charles C.  
 Holloway, J. L.  
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     Adrian O.  
 Holmblad, Dr.  
     Edward C.  
 Holmburger, Max  
 Holmes, J. A.  
 Holmes, William  
 Holmes, William N.  
 Holt, McPherson  
 Holub, Anthony S.  
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     James M., Jr.  
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 Hornburg, Arthur C.  
 Horne, Mrs. William  
     Dodge, Jr.  
 Horner, Mrs.  
     Maurice L., Jr.  
 Horton, Mrs. Helen  
 Horween, Arnold  
 Horween, Isidore  
 Hosbein, Louis H.  
 Hoshell, Robert J.



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- Hoslett, Dr. Schuyler Dean  
 Houck, Irvin E.  
 Houck, L. E.  
 Hough, Charles F.  
 Hough, Frank G.  
 Hovland, Mrs. John P.  
 Howard, Bailey K.  
 Howard, Mrs. Harvey H.  
 Howard, Howell H.  
 Howe, Miss Alice  
 Howe, Miss Amy L.  
 Howe, Charles Albee  
 Howe, Ralph B.  
 Howe, Roger F.  
 Howie, Mrs. James E.  
 Howse, Richard G.  
 Howson, Louis R.  
 Hoy, Pat  
 Hoyne, Miss Susan D.  
 Hoyt, Mrs. Phelps B.  
 Hraback, L. W.  
 Hrdlicka, Mrs. John D.  
 Hubachek, Frank Brookes  
 Huber, Dr. Harry Lee  
 Huck, Ralph F.  
 Hudson, Miss Katherine J.  
 Hudson, William J.  
 Huey, Mrs. A. S.  
 Hufty, Mrs. F. F.  
 Huggins, G. A.  
 Hughes, Dr. Charles E.  
 Hughes, John E.  
 Hughes, John W.  
 Hume, James P.  
 Hume, Patrick H.  
 Humphrey, H. K.  
 Huncke, Oswald W.  
 Hunding, B. N.  
 Hunker, Robert W.  
 Hunt, George L.  
 Hunt, Jarvis  
 Hunt, Miss Ruth  
 Hunt, Mrs. William O.  
 Hunter, Mrs. C. K.  
 Hunter, Mrs. Florence H.  
 Hunter, Lemuel B.  
 Huska, Mrs. Joseph  
 Hust, George  
 Huszagh, Ralph D.  
 Hutchens, Edward J.  
 Hutchins, John S.  
 Hutchinson, Foye P.  
 Hutchinson, Samuel S.  
 Huth, Frank D.  
 Hynes, D. P.  
 Hypes, William P.  
 Ickes, Raymond W.  
 Ickes, Mrs. Wilmarth  
 Idelman, Bernard  
 Igoe, Michael L.  
 Igoe, Michael L., Jr.  
 Ignowski, Vincent P.  
 Iker, Charles  
 Ilg, Robert A.  
 Ilg, Paul F.  
 Illich, George M., Jr.  
 Ingalls, Allin K.  
 Ingersoll, Roy C.  
 Ingersoll, Mrs. S. L.  
 Ingram, Frank H.  
 Inlander, N. Newton  
 Inlander, Samuel  
 Irons, Dr. Ernest E.  
 Irons, Mrs. Spencer E.  
 Irvine, George L.  
 Isaacs, Roger D.  
 Isham, George S.  
 Isham, Henry P.  
 Isham, Henry P., Jr.  
 Isom, W. R.  
 Ives, Clifford E.  
 Ives, George R.  
 Jackson, Allan  
 Jackson, Archer L.  
 Jackson, Byrne A.  
 Jackson, Carl W.  
 Jackson, Mrs. W. A.  
 Jacobi, Miss Emily C.  
 Jacobs, Aaron M.  
 Jacobs, Nathan E.  
 Jacobs, Julius  
 Jacobs, Mrs. Walter H.  
 Jacobs, Walter L.  
 Jacobson, A. J.  
 Jacobson, Arent J.  
 Jacobson, Jacob  
 Jacobson, Raphael  
 Jahn, Reinhardt H.  
 James, Ralph C.  
 James, Thomas M.  
 James, Walter C.  
 Jameson, Clarence W.  
 Jancosek, Thomas A.  
 Jansey, Dr. Felix  
 Janson, Dr. C. Helge M.  
 Janusch, Fred W.  
 Jarchow, Mrs. C. E.  
 Jarchow, Robert B.  
 Jeffers, Howard F.  
 Jeffries, Dr. Daniel W.  
 Jens, Arthur M., Jr.  
 Jensen, W. J.  
 Jerger, Wilbur Joseph  
 Jessen, Floyd E.  
 Jessen, Dr. George N.  
 Jetzinger, David  
 Jirgal, John  
 Jirka, Dr. Frank J.  
 Job, Dr. Thesle T.  
 John, Dr. Findley D.  
 Johnson, Alvin O.  
 Johnson, Calmer L.  
 Johnson, Herbert M.  
 Johnson, Hjalmar W.  
 Johnson, John H.  
 Johnson, Mrs. Norma O.  
 Johnson, Norman E.  
 Johnson, Mrs. O. W.  
 Johnson, Paul C.  
 Johnson, P. Sveinbjorn  
 Johnson, Philip C.  
 Johnson, Ray T., Jr.  
 Johnston, Edward R.  
 Johnston, Miss Fannie S.  
 Johnston, Mrs. Hubert McBean  
 Johnston, Hulburd  
 Johnston, Mrs. M. L.  
 Jonswold, C. R.  
 Jolly, Miss Eva Josephine  
 Jonak, Frank J.  
 Jones, Dr. Fiske  
 Jones, Gordon M.  
 Jones, James B.  
 Jones, Dr. Margaret M.  
 Jones, Melvin  
 Jones, Miss Susan E.  
 Jordan, Horace W.  
 Jorgensen, Paul  
 Joseph, Mrs. Jacob G.  
 Joseph, Louis L.  
 Joy, Guy A.  
 Juergens, H. Paul  
 Julian, Dr. Ormand C.  
 Julien, Victor R.  
 Kahn, Mrs. Arthur S.  
 Kahn, J. Kesner  
 Kahn, Jerome J.  
 Kaine, James B.  
 Kaiser, Dr. George D.  
 Kalnitz, Arnold B.  
 Kamenjarin, Mrs. Anthony  
 Kamin, William C.  
 Kamins, Dr. Maclyn M.  
 Kamm, Dr. Bernard A.  
 Kane, Jerome M.  
 Kanter, Jerome J.  
 Kaplan, Morris I.  
 Kaplan, Nathan J.  
 Kaplan, Stanley A.  
 Kargman, Wallace I.  
 Karlos, Anthony C.  
 Kasakoff, Lawrence  
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 Katz, Mrs. Sidney L.

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- Katz, Solomon  
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Kaufman, M. G.  
Kaufmann, Dr.  
Gustav L.  
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Kelly, Charles Scott  
Kelly, Mrs. Haven Core  
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Kennedy, Henry Warner  
Kennedy, James G.  
Kennedy, Lesley  
Kennedy, R. J.  
Kennedy, Taylor L.  
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Kenoe, Henry W.  
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Kantor, William E.  
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Kern, H. A.  
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Kimball, William W.  
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King, Mrs. Charles G.  
King, Clinton B.  
King, Harold R.  
King, Mrs. John  
Andrews  
Kingman, Mrs. Arthur G.  
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Kirkland, Mrs.  
Weymouth  
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Kitzelman, Otto  
Klapman, Philip A.  
Klee, Steven Michael  
Klein, Robert L.  
Klein, William P.  
Kleinpell, Dr. Henry H.  
Kleist, Mrs. Harry  
Kleppinger, William H.  
Kleutgen, Dr. Arthur C.  
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Paula  
Knight, Howard  
Knight, John S.  
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Koch, Mrs. Fred J.  
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Koch, Robert J.  
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Koenig, Oswald N.  
Koenig, Philip F.  
Koerber, Lorenz F., Jr.  
Kohn, Edward  
Kohn, Henry L.  
Kolar, George G.  
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Kolehmainen, Waino M.  
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John Anton, Jr.  
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Koppenaal, Dr.  
Elizabeth Thompson  
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Howard G.  
Kosmach, Frank P.  
Kosobud, William F.  
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Kotal, John A.  
Kotin, George N.  
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Kowalski, Dr. Leonard F.  
Kozlik, Frank B.  
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Kraft, John H.  
Kraft, Norman  
Kralovec, Emil G.  
Kralovec, Mrs. Otto J.  
Kramer, Dr. George M.  
Kramer, Leroy, Jr.  
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Kraus, William C.  
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Kresl, Carl  
Kretschmer,  
Herman L., Jr.  
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Kribben, Arthur K.  
Kribben, Delafield  
Kridner, E. A.  
Kritzer,  
Richard W., Sr.  
Kroch, Carl A.  
Kroehler, Kenneth  
Kroeschell, Robert A.  
Kropff, C. G.  
Krost, Dr. Gerard N.  
Krupnick, Samson  
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Kuhn, Dr. Hedwig S.  
Kuhn, Overton F.  
Kunka, Bernard J.  
Kunstatter, Albert  
Kunstatter, Sigmund W.  
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Kurtzon, Morris  
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Kutza, Dr. Michael J.  
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Laadt, Dr. John R.  
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Lafin, Miss June  
Atchison  
Lafin, Louis E., Jr.  
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Lafin, Louis E., III  
Lafin, Miss Mary  
Josephine  
Laing, Mrs. Milton L.  
Laing, William  
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     Tayloe  
 Lanman, David T.  
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     Edward Boylston  
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 Larimer, Howard S.  
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 Larson, L. S.  
 Larson, Mrs. Sarah G.  
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 Lautmann, Herbert M.  
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 Leadbetter, Gordon  
 Leahy, George J.  
 Leahy, James F.  
 Leavell, James R.  
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 Lebolt, John Michael  
 Lederer, Dr. Francis L.  
 Lee, David Arthur  
 Leekley, Philip A.  
 Lefens, Miss Katherine J.  
 Lefens, Walter C.  
 Lehmann, Robert O.  
 Leichenko, Peter M.  
 Leight, Mrs. Albert E.  
 Leighton, George N.  
 Leith, John A.  
 Leland, Miss Alice J.  
 Leland, Mrs. Rosco G.  
 Lennon, George W.  
 Lello, Herbert F.  
 Leonard, Arthur T.  
 Lerch, William H.  
 Leslie, John H.  
 Lessman, Gerhard  
 Le Tourneau, Mrs.  
     Robert  
 Levering, J. E.  
 Levi, Julian H.  
 Levin, Robert E.  
 Levin, Sidney D.  
 Levinson, Mrs. Salmon O.  
 Levitan, Benjamin  
 Levitt, Dr. Le Roy P.  
 Levy, Alexander M.  
 Levy, Arthur G.  
 Lewis, Mrs. J. J.  
 Ley, Robert J.  
 Liebenow, J. Gus  
 Liebenow, Robert C.  
 Liebenson, Harold A.  
 Liesendahl,  
     Mrs. Richard W.  
 Lietz, J. T.  
 Liffshin, Reuben J.  
 Liguori, Sister Mary  
 Lilien, Mrs. K. K.  
 Lill, George, II  
 Lillyblade, Clarence O.  
 Lindar, Albert J.  
 Lindberg, Le Roy A.  
 Lindell, Arthur G.  
 Linden, John A.  
 Lindgren, Erik A.  
 Lindheimer, B. F.  
 Lindsay, Mrs. Martin  
 Lingle, Harrison C.  
 Linn, Howard  
 Linn, Mrs. W. Scott  
 Lippman, Mrs. William  
 Littin, Chapin  
 Littig, Howard L.  
 Little, Mrs. E. H.  
 Littler, Harry E., Jr.  
 Livingston, Mrs.  
     Milton L.  
 Lizzardo, Joseph F.  
 Llewellyn, Mrs. Ross  
 Lloyd, William Bross, Jr.  
 Lodge, Robert H.  
 Loeb, Mrs. Ernest G.  
 Loeb, Hamilton M.  
 Loeb, Jerrod  
 Loewenberg, Israel S.  
 Loewenberg, M. L.  
 Loewenherz, Emanuel  
 Loewenstein, Richard M.  
 Loewy, Dr. Arthur  
 Logan, Seymour N.  
 Long, R. E.  
 Long, William E.  
 Loomis, D. P.  
 Loomis, Reamer G.  
 Lorange,  
     Mrs. Luther M.  
 Lorber, Herbert J.  
 Lord, Arthur R.  
 Lord, John S.  
 Lord, Mrs. Russell  
 Lorentz, Arthur G.  
 Lotz, Philip W.  
 Loucks, Charles O.  
 Louer, Albert E. M.  
 Louis, Mrs. John J.  
 Loundy, Mrs. Mason A.  
 Lovgren, Carl  
 Lowe, William H.  
 Lowell, Arthur J.  
 Lowrie, Mrs. John M.  
 Lucey, Patrick J.  
 Ludgin, Earle  
 Ludolph, Wilbur M.  
 Lundberg, Robert  
 Lundy, Dr. Clayton J.  
 Luria, Herbert A.  
 Lurie, George S.  
 Lusk, R. R.  
 Lustgarten, Samuel  
 Lydon, Robert R.  
 Lyford, Harry B.  
 Lynch, J. W.  
 Lynch, William J., Jr.  
 Lyon, Charles H.  
 Mabee, Mrs. Melbourne  
 MacArthur, Donald  
 Mac Cowan, Hervey L.  
 MacDonald, E. K.  
 Mac Farland, Lanning  
 Macias, William George  
 MacIntyre, Mrs. M. K.  
 MacKenzie, William J.  
 Mackey, Frank J.  
 Macki, Carl Gunnar  
 MacKiewich, Justin  
 Mackinson, Dr. John C.  
 Mackoff, Mrs. Saul  
 MacLean, Mrs.  
     John A., Jr.  
 MacLellan, K. F.  
 MacLellan,  
     Kenneth F., Jr.  
 MacMurray, Mrs.  
     Donald  
 Macomb,  
     J. deNavarre, Jr.  
 Madden, John  
 Madlener, Mrs.  
     Albert F., Jr.  
 Madlener, Otto  
 Madrin, Mrs. Charles  
 Maehler, Edgar E.  
 Magan, Miss Jane A.  
 Magerstadt, Madeline

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- Magid, Cecil E.  
 Magnus, Albert, Jr.  
 Magnuson, Mrs. Paul  
 Mah, George G.  
 Maher, Dr.  
     David Bremner  
 Maher, Mrs. D. W.  
 Maher, James P.  
 Main, Walter D.  
 Majka, F. L.  
 Major, Ross O.  
 Majors, Mrs. B. S.  
 Makler, Joseph H.  
 Maley, Alexander B.  
 Maling, Albert  
 Maller, Dr. Adolph M.  
 Manasse, De Witt J.  
 Mandel, Mrs. Aaron W.  
 Mandel, Edwin F.  
 Mandel, Miss Florence  
 Mandel, Mrs. Robert  
 Manegold, Mrs.  
     Frank W.  
 Manierre, Louis  
 Mannette,  
     Mrs. Russell L.  
 Manz, Mrs. Carolyn D.  
 Maragos, Samuel C.  
 Marchant, Miss Lilian  
 Maremont, Arnold H.  
 Mark, E. E.  
 Mark, Griffith  
 Marker, Van E.  
 Markham, Mrs.  
     Herbert I.  
 Markus, Alfred S.  
 Marovitz, Sydney R.  
 Marquart, Arthur A.  
 Marquardt, Dr.  
     Gilbert H.  
 Marsh, A. Fletcher  
 Marsh, E. S.  
 Marsh, Mrs. Marshall S.  
 Marsh, Peter John  
 Martin, Eldon  
 Martin, Mrs. George B.  
 Martin, George F.  
 Martin, Samuel H.  
 Martin, Wells  
 Marx, Adolf  
 Marx, Victor E.  
 Marzola, Leo A.  
 Mason, Arnold D. K.  
 Mason, Willard J.  
 Masse, B. A.  
 Massey, Richard W.  
 Masters, Eugene W.  
 Masterson, Peter  
 Mathesius, Mrs. Walther  
 Mathis, Allen W.  
 Matson, J. Edward  
 Maurer, Dr. Siegfried  
 Maxant, Basil  
 Maxwell, A. K., Jr.  
 Maxwell, Robert E.  
 Maxwell, W. Stirling  
 Mayer, Frank D.  
 Mayer, Herman J., Jr.  
 Mayer, Isaac H.  
 Mayer, Leo  
 Mayer, Oscar G.  
 Mayer, Robert B.  
 Mazurek, Miss Olive  
 McAlvin, Mrs. James H.  
 McArthur, A. Peter  
 McArthur, Billings M.  
 McCabe, Frank J., Jr.  
 McCahey, James B.  
 McCarl, David N.  
 McCarthy, Joseph W.  
 McCausland, Mrs.  
     Clara L.  
 McClellan, John H.  
 McCloska, Fred W.  
 McCloud, Thomas W.  
 McClun, John M.  
 McCormick, Mrs.  
     Chauncey  
 McCormick, Howard H.  
 McCormick, Lenader J.  
 McCormick,  
     Robert H., Jr.  
 McCormick, Roger  
 McCrea, Mrs. W. S.  
 McCreight, Louis Ralph  
 McCurry, Paul D.  
 McCutcheon, Mrs.  
     John T.  
 McDavid, Raven I., Jr.  
 McDermott, Franklin  
 McDonald, E. F., Jr.  
 McDougal, C. Bouton  
 McDougal, David B.  
 McDougal, Mrs.  
     Edward D., Jr.  
 McDougal, Mrs. James B.  
 McDougal, Mrs. Mary  
 McDougal, Mrs. Robert  
 McErean, Charles V.  
 McGregor, John M.  
 McGuffin, James P.  
 McGurn, Matthew S.  
 McKay, Miss Mabel  
 McKellar, Donald  
 McKenna, Charles H.  
 McKinney, Mrs. Hayes  
 McKittrick, C. E.  
 McLennan, Mrs.  
     Donald R., Sr.  
 McLennan, William L.  
 McMenemy, Logan T.  
 McMillan, John  
 McMillan, W. B.  
 McNair, F. Chaloner  
 McNamara, Louis G.  
 McNamara, Robert C.  
 McNamee, Peter F.  
 McNulty, Joseph D.  
 McPherson, Cleo Edwin  
 McQuarrie, Mrs. Fannie  
 McReynolds, Mrs.  
     Ruth M.  
 Mead, Dr. Henry C. A.  
 Means, John L.  
 Medsker, Dr. Ora L.  
 Meers, Henry W.  
 Megan, Graydon  
 Mehan, Mrs. Georgette  
 Mehn, Dr. W. Harrison  
 Meidell, Harold  
 Melcher, George Clinch  
 Melody, Miss Margaret  
 Melnick, Leopold B.  
 Merriam, Miss Eleanor  
 Merricks, Mrs. James W.  
 Merrill, Miss Marion E.  
 Mesenbrink, Paul H.  
 Metcalfe, Mrs. Charles  
 Mettenet, Francis X.  
 Metz, Dr. Arthur R.  
 Metz, Carl A.  
 Metzger, Roswell W.  
 Meyer, Mrs. A. H.  
 Meyer, Charles A.  
 Meyer, Dr. Charles A.  
 Meyer, Charles Z.  
 Meyerhoff, A. E.  
 Meyers, Erwin A.  
 Meyers, Jonas  
 Michaels, Allen C.  
 Michaels, Everett B.  
 Michalko, Edward  
 Michel, Dr. Daniel  
 Michel, Dr. William J.  
 Michels, Robert D.  
 Michet, Dr. Clement J.  
 Middleton, J. A.  
 Midowicz, C. E.  
 Mielenz, Robert K.  
 Milburn, Miss Anne L.  
 Milgrom, H. T.  
 Milhening, Frank  
 Milhoan, F. B.  
 Miller, Miss Bertie E.  
 Miller, Byron S.  
 Miller, Dr. Cecelia E.  
 Miller, Mrs. Clayton W.  
 Miller, C. R.  
 Miller, Creighton S.  
 Miller, Mrs. Donald J.  
 Miller, Mrs. Ellen C.  
 Miller, Frank A.  
 Miller, Mrs. George



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- Miller, Mrs. Harvey O.  
 Miller, Hyman  
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     Beaupre  
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 Miller, Mrs. Thomas S.  
 Miller, William H.  
 Milliken, John F.  
 Mills, Allen G.  
 Mills, Mrs.  
     Dorothy Stone  
 Mills, Lloyd Langdon  
 Mills, Wesley K.  
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 Miner, Dr. Carl S.  
 Minkler, Ralph R.  
 Mitchell, John J.  
 Mizen, Dr. Michael R.  
 Mock, Dr. Harry Edgar  
 Moeller, George  
 Mohr, Albert, Jr.  
 Moist, Mrs. Samuel E.  
 Mojonniier, Timothy  
 Mollan, Mrs. Ferne T.  
 Molloy, David J.  
 Mong, Mrs. C. R.  
 Monheimer, Henry I.  
 Montgomery, P. B.  
 Moore, Chester G.  
 Moore, Edwin R.  
 Moore, Harold A.  
 Moore, Oscar L.  
 Moore, Paul  
 Moore, Philip Wyatt  
 Mordock, John B.  
 Morgan, John Alden  
 Morgan, Miss  
     Elizabeth W.  
 Morgan, K. P.  
 Moroni, Aldo L.  
 Morrison, D. K.  
 Morrison, Mrs. Harry  
 Morrison, James C.  
 Morrow, Mrs. John, Jr.  
 Morse, Mrs. Charles J.  
 Morse, Leland R.  
 Morse, Mrs. Milton M.  
 Morse, Robert H.  
 Moses, Howard A.  
 Mosher, Edward A.  
 Moss, Jerome A.  
 Moss, John T.  
 Mossman, John E.  
 Mostek, Raymond  
 Mouat, Andrew J.  
 Moulding, Mrs. Arthur T.  
 Moxon, Dr. George W.  
 Moyer, Mrs. David G.  
 Moyer, Mrs. Paul S.  
  
 Mudd, Mrs. J. A., Jr.  
 Muehlstein, Mrs.  
     Charles  
 Mueller, Austin M.  
 Mueller, J. Herbert  
 Mulcahy, Mrs.  
     Michael F.  
 Mulhern, Edward F.  
 Mullaney, Paul L.  
 Mullen, Mrs. Esther T.  
 Mullen, Dr. Joseph J.  
 Mundstock, Robert W.  
 Munnecke, Wilbur C.  
 Munnecke, Mrs.  
     Wilbur C.  
 Munroe, Moray  
 Murphy,  
     Carroll Dean, Jr.  
 Murphy, Charles F.  
 Murphy, Edward F.  
 Murphy, Joseph D.  
 Murphy, O. R.  
 Murphy, Robert E.  
 Murphy, W. Richard  
 Muszynski, John J.  
 Myers, Harold B.  
 Myrland, Arthur L.  
  
 Nachman, H. S.  
 Naess, Sigurd E.  
 Nafziger, R. L.  
 Nagel, Mrs. Frank E.  
 Nance, Willis D.  
 Nardi, Victor G.  
 Nath, Bernard  
 Nathan, Joseph E.  
 Naumann, Miss Susan  
 Nebel, Herman C.  
 Neely, Mrs. Lloyd F.  
 Nehls, Arthur L.  
 Nelson, Arthur W.  
 Nelson, Charles G.  
 Nelson, Charles M.  
 Nelson, James S.  
 Nelson, Victor W.  
 Neskow, Dr. Peter S. Y.  
 Nessler, Robert P.  
 Neuman, Sidney  
 Neumann, Arthur E.  
 Newberg, Paul K.  
 Newberger, Arnold  
 Newberger, Joseph  
     Michael  
 Newcombe, Leo  
 Newhouse, Karl H.  
 Newman, Mrs. Albert H.  
 Newman, Charles H.  
 Newman, Ralph G.  
 Newton, C. G.  
 Nichols, Frank Billings  
 Nichols, J. C.  
  
 Nielsen, George  
 Nietschmann, Walter  
 Nilson, Alfred R.  
 Nilsson, Mrs.  
     Goodwin M.  
 Nishkian, Mrs.  
     Vaughn G.  
 Nitze, Mrs. William A.  
 Noble, Daniel E.  
 Noble, Samuel R.  
 Noonan, Edward J.  
 Norell, Elmer G.  
 Norem, Mrs. Lawrence E.  
 Norian, Richard  
 Norman, Harold W.  
 Norris, Mrs. Lester  
 Norton, Christopher D.  
 Novak, Charles J.  
 Noyes, Mrs. May Wells  
 Nusbaum, Mrs.  
     Hermien D.  
  
 Obermaier, John A.  
 O'Brien, Miss Janet  
 O'Connell, Edmund  
     Daniel  
 O'Connor, Hugh J.  
 O'Connor, John B.  
 Odell, Miss Audrey  
 Oden, Dr. Joshua, Jr.  
 Oester, Dr. Y. T.  
 Offield, Mrs. James  
 Offield, Wrigley  
 Oglesbee, Nathan H.  
 O'Hara, Arthur J.  
 O'Keefe, William F.  
 O'Kieffe, De Witt  
 Okner, Dr. Henry B.  
 Olaison, Miss Eleanor O.  
 Oldefest, Edward G.  
 Oleson, Wrisley B.  
 Olin, Carl E.  
 Olin, Edward L.  
 Oliver, Dr. Marguerite  
 Oliver, Mrs. Paul  
 Olsen, Miss Agnes J.  
 Olsen, Mrs. Arthur O.  
 Olson, Albert M.  
 Olson, Benjamin  
     Franklin  
 O'Neil, Dr. Owen  
 O'Neill, J. W.  
 Onofrio, Mrs. Michael J.  
 Ooms, Casper William  
 Oppenheimer, Seymour  
 Orndoff, Dr. Benjamin H.  
 O'Rourke, Albert  
 O'Rourke, Mrs. Harry J.  
 Orr, Mrs. Robert C.  
 Orr, Thomas C.  
 Ortmayer, Dr. Marie



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Oscar, Robert E.  
Oser, Nelson A.  
Osgood, Mrs. Gilbert H.  
Ostrom, Mrs. J. Augustus  
O'Sullivan, James J.  
Otis, Joseph Edward, Jr.  
Otis, Peter Witherspoon  
Otis, Stuart Huntington  
O'Toole, Donald  
Ott, Mrs. Fentress  
Ott, John Ekern  
Ott, John Nash, Jr.  
Ott, Wendel Fentress  
Owens, Harry J.

Paasche, Jens A.  
Packard, Dr. Rollo K.  
Paffhausen, J. V.  
Page, John W.  
Pagel, Mrs. William H.  
Pallasch, Dr. Gervaise P.  
Palm, Felix  
Palmer, James L.  
Palmer, O. Earl  
Palmgren, Mrs.  
Charles A.  
Paluch, Edward J.  
Pandaleon, Costa A.  
Papierniak, Dr. Frank B.  
Paradee, Sidney A.  
Pardee, Harvey S.  
Park, R. E.  
Parker, Miss Edith P.  
Parker, Norman S.  
Parker, Troy L.  
Parks, C. R.  
Parmelee, Dr. A. H.  
Parry, Mrs. Norman G.  
Partridge, Lloyd C.  
Paschen, Mrs. Henry  
Paschen, Herbert C.  
Pashkow, A. D.  
Patchen, Dr. Paul J.  
Patrick, Harry H.  
Patterson, Grier D.  
Patterson, R. Curtis  
Patterson, Thomas A.  
Patton, A. E.  
Patzelt, Miss Janet  
Peabody, Howard B.  
Peabody, Miss Susan W.  
Peacock, Charles D., III  
Pearl, Allen S.  
Pearson, George  
Albert, Jr.  
Peasley, Mrs. John R.  
Peirce, Albert E.  
Pellettieri, Dr. D. J.  
Pellicore, Dr.  
Raymond J.  
Pellouchoud, Vernon J.

Pencik, Jan M.  
Percy, Mrs. Charles H.  
Perel, Harry Z.  
Perkins, Harry D.  
Perkins, L. B.  
Perlman, Daniel  
Perlman, Henry  
Perlman, Raymond L.  
Perrigo, Charles R.  
Perry, Mrs. I. Newton  
Peskin, Bernard M.  
Petterkin, Daniel, Jr.  
Peters, Harry A.  
Petersen, Jurgen  
Petersen, William O.  
Peterson, Mrs.  
Elizabeth F.  
Pettibone, Holman D.  
Petty, P. E.  
Pfaelzer, Miss  
Elizabeth W.  
Pfauimer, Robert E.  
Pflock, Dr. John J.  
Philipsborn,  
Herbert F., Sr.  
Philipsborn,  
Colonel M. M., Jr.  
Phillips, Dr. Herbert  
Morrow  
Phoenix, George E.  
Pick, Frederic G.  
Pierce, Berlyn  
Pierce, J. Norman  
Pierce, Paul, Jr.  
Pierson, Joseph B.  
Pierson, Roy J.  
Pikiel, Mrs. A. J.  
Pillsbury, Mrs. C. S.  
Pink, Mrs. Ira M.  
Pirie, Mrs. Gordon L.  
Pirie, Mrs. John T.  
Pirie, Mrs. S. C., Jr.  
Pitts, Henry L.  
Plapp, Miss Doris A.  
Platt, Mrs. Robert S.  
Plochman, Cordelia G.  
Plummer, Comer  
Plunkett, Paul M.  
Pobloske, Albert C.  
Podell, Mrs. Beatrice  
Hayes  
Poister, John J.  
Pollak, Charles A.  
Polyak, Stephen, Jr.  
Pond, Mrs. Harold M.  
Pope, Mrs. Henry, Jr.  
Pope, Herbert  
Pope, John W.  
Poppell, Tyson E.  
Poppenhagen, Henry J.  
Porter, Edward C.

Porter, Mrs. Frank S.  
Porter, Henry H.  
Porter, Louis  
Porter, Mrs. Sidney S.  
Posey, Chester L.  
Post, Myron H.  
Pottenger, William A.  
Potter, Howard I.  
Potter, Dr. Robert Morse  
Potts, Albert W.  
Poulson, Mrs. Clara L.  
Powells, Michael A.  
Prall, Bert R.  
Pray, Max  
Preble, Robert C.  
Price, Frederick J.  
Price, John McC.  
Prince, Mrs. Arthur C.  
Prince, Harry  
Prince, Rev. Herbert W.  
Prince, Kenneth C.  
Prince, Leonard M.  
Pritchard, Richard E.  
Pritikin, Marvin E.  
Pritzker, Mrs. Jack  
Probst, Marvin G.  
Prosser, Mrs. John A.  
Prussing, Mrs. R. E.  
Pucci, Lawrence  
Purcey, Victor W.  
Putterman, A. Jerry  
Puttkammer, E. W.  
Puzey, Russell V.

Quick, Miss Hattiemae  
Quigley, Jack A.

Racheff, Ivan  
Radebaugh, Richard J.  
Radford, George  
Radford, Mrs. W. A., Jr.  
Radovich, Miss Bessie  
Raff, Mrs. Arthur  
Raftree, Miss Julia M.  
Ragan, Alvin J.  
Railton, Miss Frances  
Ramis, Leon Lipman  
Randall, Rev. Edwin J.  
Randall, Irving  
Raney, Mrs. R. J.  
Rankin, Miss Jessie H.  
Rathburn, M. Hudson  
Rathje, Frank C.  
Ratner, Walter B.  
Ray, Harold R.  
Rayfield,  
Master Russell P.  
Rayfield,  
Master Rutherford P.  
Raymond, Mrs.  
Howard D.

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- Reach, Benjamin F.  
 Reals, Miss Lucile  
     Farnsworth, Jr.  
 Redfield, William M.  
 Reed, John S.  
 Reed, Mrs. John Shedd  
 Reed, Mrs. Lila H.  
 Reed, Mrs. Philip L.  
 Reeder, Howard C.  
 Regan, Mrs. Robert G.  
 Regenstein, Joseph, Jr.  
 Regnery, Frederick L.  
 Reid, Mrs. Bryan  
 Reid, Bryan S., Jr.  
 Reid, Robert H.  
 Reilly, George A.  
 Reilly, Vincent P.  
 Reinecke, Lester W.  
 Reisch, Mrs. Louis J.  
 Remien, Miss  
     Marie Katherine  
 Renaldi, George J.  
 Renn, Mrs. John A.  
 Renouf, William  
 Renshaw, Mrs. Charles  
 Rentschler, Mrs.  
     William H.  
 Replogle, Dr. Fred A.  
 Re Qua, Mrs. Charles  
     Howard, Jr.  
 Rew, Mrs. Irwin  
 Reynolds, Mrs.  
     G. William  
 Reynolds, Harold F.  
 Rhines, James E.  
 Rhodes, Charles M.  
 Rice, Mrs. Charles R.  
 Rice, Laurence A.  
 Rich, Elmer  
 Rich, Franklin J.  
 Rich, Harry  
 Richards, Mrs. Bartlett  
 Richards, Donald  
 Richards, Longley  
 Richards, Marcus D.  
 Richardson, George A.  
 Richardson, Irving  
 Richter, Mrs. Adelyn W.  
 Rickcords, Mrs.  
     Francis Stanley  
 Ridley, Douglas K.  
 Rieg, George S.  
 Rieser, Leonard M.  
 Rietz, Elmer W.  
 Rietz, Walter H.  
 Riker, Dr. William L.  
 Riley, John H.  
 Rinaldo, Philip S., Jr.  
 Rindfleisch, Keith P.  
 Risdon, Russell R.  
 Ritchie, Mrs. John  
  
 Roberts, Charles S.  
 Roberts, Harry V.  
 Roberts, William  
     Munsell  
 Robertson, Scott  
 Robinson, Edward  
 Robinson, Milton D.  
 Robinson, R. W.  
 Robinson,  
     Theodore W., Jr.  
 Robinson, William S.  
 Roddewig, Clair M.  
 Roderick, Solomon P.  
 Rodgers, Dr. David C.  
 Rodman, Thomas  
     Clifford  
 Rodman, Mrs. Hugh  
 Roe, Frederick  
 Roebuck, Mrs. A. S.  
 Roehling, Mrs. Otto G.  
 Roehm, George R.  
 Roehrborn, Ernest R.  
 Rogers, Miss Annie T.  
 Rogers, Mrs. George P.  
 Rogers, Lester C.  
 Roggenkamp, John  
 Rohloff, Paul F.  
 Romane, Julian J. (Pat)  
 Rome, Samuel  
 Romer, Mrs. Arthur C.  
 Roos, Miss Virginia M.  
 Root, John W.  
 Rosborough, Dr. Paul A.  
 Rose, Miss Evelyn  
 Rosen, M. R.  
 Rosenbaum, Mrs.  
     Edwin S.  
 Rosenbaum, Mrs.  
     Harold A.  
 Rosenfeld, M. J.  
 Rosenfels, Mrs. Irwin S.  
 Rosenstone, Nathan  
 Rosenstone, Samuel  
 Rosenthal, J. F.  
 Rosenthal, M. A.  
 Rosenthal, Samuel R.  
 Rosenwald, Richard M.  
 Ross, Mrs. Doris Serrins  
 Ross, Earl  
 Ross, Robert C.  
 Ross, Thompson  
 Rosset, Harry  
 Rotchford, J. Stuart  
 Rotenberry, Dean  
 Roth, Mrs. Donald I.  
 Roth, Mrs. Margit  
     Hochsinger  
 Roth, Walter L.  
 Rothacker, Watterson R.  
 Rothschild, George  
     William  
  
 Rothschild,  
     Melville N., Jr.  
 Routh, George E., Jr.  
 Rowan, Mrs. Paul  
 Rowe, John R.  
 Rozelle, Mrs. Emma  
 Rubinson, Kenneth Alan  
 Rubloff, Arthur  
 Rubovits, Mrs. Frank E.  
 Ruettinger, John W.  
 Runions,  
     Mrs. Eugene Smith  
 Runnells, John S.  
 Ruppert, Max K.  
 Russell, Mrs. Mary H.  
 Russell, Robert S.  
 Rutledge, George E.  
 Ryan, Arthur  
 Ryan, Eugene F.  
 Ryerson, Mrs.  
     Donald M.  
  
 Sacco, Anthony E.  
 Sachar, Bernard  
 Sackett, Samuel J.  
 Sage, W. Otis  
 Saks, Benjamin  
 Salk, Erwin A.  
 Salk, Dr. Melvin R.  
 Salmon, Mrs. E. D.  
 Saltzberg, Gerald B.  
 Salzman, Charles N.  
 Sample, John Glen  
 Sampsell, Marshall G.  
 Sampson, H. R.  
 Samuelson, George  
 Sandidge, Miss Daisy  
 Sandquist, Elroy C., Jr.  
 Sandquist, Dr. Robert W.  
 Sandler, George S.  
 Sands, Mrs. Frances B.  
 San Filippo, Dr. Paul D.  
 Sanow, Harry R.  
 Santini, Mrs. Randolph  
 Sargent, Chester F.  
 Sasser, Mrs. Fred H.  
 Satter, Mark J.  
 Sauter, Fred J.  
 Sawyer, Dr. Alvah L.  
 Sawyer, Calvin P.  
 Scalbom, G. Trumbull  
 Scarborough, Mrs. Henry  
 Schacht, John H.  
 Schaefer, Fred A.  
 Schafer, Mrs. Elmer J.  
 Schaffner, Mrs. L. L.  
 Schanfield, Leonard  
 Scharin, Mrs. J. Hippach  
 Scheinman, Jesse D.  
 Shelly, Mrs. Herbert S.  
 Schenck, Frederick

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- Schenk, Miss Marion H.  
Scheu, Ralph  
Schick, Dr. Armin F.  
Schlatter, Miss Nina E.  
Schlichting, Justus L.  
Schloer, Harold J.  
Schloss, Harold W.  
Schmidt, Dr. Charles L.  
Schmidt, Mrs. Minna M.  
Schmitz, Dr. Henry  
Schneider, D. G.  
Schneider, F. P.  
Schnering, P. B.  
Schnering, Robert B.  
Schnur, Ruth A.  
Schnute, Dr. William J.  
Schoenhofen, Leo H.  
Scholl, Dr. William M.  
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Charles W.  
Schoonhoven, Ray J.  
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Schuck, E. H.  
Schuere, Arnold C.  
Schulman, Dr. Jerome L.  
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Schumaker, Lawrence C.  
Schupp, Philip C.  
Schurig, Robert Roy  
Schuyler, Mrs.  
Daniel J.  
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Schwander, J. J.  
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Schwanke, Arthur  
Schwartz, Charles F.  
Schwartz, Charles K.  
Schwartz, Charles P.  
Schwartz, Edward H.  
Schwartz, Joseph H.  
Schwartz, Leo J.  
Schwartz, Milton H.  
Schwartz, Nathan H.  
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Schwartz, Dr. Steven O.  
Schwinn, Frank W.  
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Scott, Miss Maud E.  
Scott, Willis H.  
Scribner, Gilbert  
Scribner, Gilbert H., Jr.  
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William M.  
Seaholm, A. T.  
Searle, Daniel C.  
Searle, Mrs. Nell Y.  
Searle, William L.  
Searles, Donald K.  
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Sears, J. Alden  
Searson, R. V.  
Seaton, G. Leland  
Seaverns, Louis C.  
Sedgwick, C. Galen  
Sedlacek, Frank  
See, Dr. Agnes Chester  
Seeburg, Justus P.  
Seeburg, Noel M., Jr.  
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Segal, Victor  
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Arthur B., Jr.  
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Seipp, Clarence T.  
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Selseth, Ole  
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Shillinglaw, David L.  
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De Witt  
Shumway, Spencer  
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Silberman, David, Jr.  
Silberman, David B.  
Silberman, Hubert S.  
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Sivage, Gerald A.  
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White  
Smith, Z. Erol  
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Sorensen, T. R.  
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Thresher, C. J.  
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 Trainor, H. J.  
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 Traut, Bernard H.  
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     Melvin A., Sr.  
 Traylor, Mrs.  
     Melvin A., Jr.  
 Trees, George S.  
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 Trenkmann, Richard A.  
 Trentlage, Richard B.  
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 Trimble, Mrs. M. B.  
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 Trombly, Dr. F. F.  
 Trowbridge, Mrs.  
     A. Buel, Jr.  
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 Trumbull, William M.  
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 Turow, Dr. David D.  
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 Tyrrell, Miss Frances  
  
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 Uihlein, Edgar J., Jr.  
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 Ullmann, S. E.  
 Ulrich, Norman A.  
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     Frederic W.  
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 Uriell, Francis H.  
 Ustick, Robert W.  
  
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 Vacha, Dr. Victoria B.  
 Vacin, Emil F.  
 Vail, Dr. Derrick T.  
 Vale, Mrs. Murray  
 Valentine, Andrew L.  
 Valentine, Patrick A.  
 Van Artsdale, Mrs.  
     Flora D.  
 Vance, Dr. Graham A.  
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 Van Cleef, Mrs. Noah  
 Van Cleef, Paul  
 Van Dellen, Dr.  
     Theodore R.  
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     Dr. Cornelius A.  
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 Vanek, John C.  
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 Vehe, Dr. K. L.  
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 Verson, David C.  
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 Vial, Charles H.  
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 Von Wolforsdorf, Paul  
 Voorhees, H. Belin  
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 Voynow, Edward E.  
  
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 Wagner, Fritz, Jr.  
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 Wagner, Richard  
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 Wakerlin, Dr. George E.  
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 Walgreen, Mrs.  
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 Walker, Ward  
 Walker, William E.  
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 Wallin, Mrs. G. W.  
 Walsh, Dr. Eugene L.  
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 Ward, Mrs. N. C.  
 Ward, William Parker  
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 Wares, Mrs. Helen Worth  
 Warfield, Edwin A.  
 Warner, Mrs. John Eliot  
 Warren, Paul S.  
 Warren, Walter G.  
 Warsh, Leo G.  
 Was, Dr. Harold H.  
 Washburne, Hempstead  
 Washington, Laurence W.  
 Wasick, Dr. Milan M.  
 Wasleff, Mrs. Alexia  
 Wassell, Joseph  
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 Waterbury, Donald O.  
 Waterman, French  
 Watkins, George H.  
 Watkins, William A. P.  
 Watkins, W. W.  
 Watson, Harry P.  
 Watson, William Upton  
 Watt, Andrew J.  
 Watt, Richard F.  
 Watts, Harry C.  
 Watzek, J. W., Jr.  
 Waud, Morrison  
 Weaver, John M.  
 Weaver, Robert P.  
 Webb, Dr. Edward F.  
 Weber, Warren J.  
 Webster, Frederick F.  
 Webster, Miss Helen R.  
 Webster, Henry A.  
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 Weeks, Kenneth L.  
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Weil, Martin  
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Weinress, S. J.  
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Weiss, Dr. Leon H.  
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Welfeld, Marvin J.  
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Wells, Arthur H.  
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Wentworth, Mrs.  
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Wenzel, Alfred C.  
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Wesby, Vernon L.  
Wesley, C. N.  
West, Thomas H.  
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Wheeler, George A.  
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White, Richard T.  
White, Sanford B.  
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Wilkinson, Mrs.  
    George L.  
Wilkinson, John C.  
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Willens, Joseph R.  
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Williams, Dr. Jack  
Williams, Dr. Jasper F.  
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Williams, Rowland L.  
Williams, Thomas L., Jr.  
Williams, W. J.  
Williamson, George H.  
Williamson, Mrs. Jack A.  
Willis, Paul, Jr.  
Willis, Thomas H.  
Willner, Benton Jack, Jr.  
Wilms, Hermann P.  
Wilson, Allen B.  
Wilson, D. H.  
Wilson, Edward Foss  
Wilson, Miss Helen A.  
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Winans, Frank F.  
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    Mrs. Frederick O.  
Windsor, H. H., Jr.  
Winston, James H.  
Winston, Mrs. James H.  
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Winter, Munroe A.  
Wirth, J. W.  
Wiseman, William P.  
Wishnick, Dr.  
    Seymour D.  
Witkowski, Dr. Lucjan L.  
Witter, William M.  
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Wolbach, Murray, Jr.  
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Wood, Kay  
Wood, Mrs. R. Arthur  
Wood, Robert E.  
Wood, Mrs. Rollin D.  
Woodall, Lloyd  
Woods, Frank H.  
Woods, Weightstill  
Woolard, Francis C.  
Woolman, John S.  
Wright, George L.  
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Wronski, Casimir  
    Pulaski  
Wulf, Miss Lydia  
Wulf, Miss  
    Marilyn Jean  
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Yates, T. L.  
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Yondorf, John David  
Yondorf, Milton S., Jr.  
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Yorkey, Mrs. Margaret  
Yost, Miss Karyl  
Young, B. Botsford  
Young, Dr. Donald R.  
Young, E. Frank  
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Young, William T., Jr.  
Zabel, Max W.  
Zabel, Mrs. Max W.  
Zadek, Milton  
Zapel, Elmer J.  
Zeisler, Mrs. Ernest B.  
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Zimmerman,  
    Dr. Harold W.  
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Zimmermann, Frank O.  
Zimmermann, Russell A.

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Zitzewitz, Mrs. Elmer K.	Zivin, Mrs. Alma M.	Zwiener, Kenneth V.

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Antrim, E. M.	Garden, Hugh M. G.	Pearse, Mrs. Langdon
Boynton, A. J.	Gehrmann, Felix	Pope, George J.
Brundage, Howard A.	Harrington, David L.	Ripstra, J. Henri
Burdick, Mrs. Alfred S.	Hertz, Mrs. Fred	Rittenhouse, Charles J.
Churan, Miss Jessie	Hibbard, Mrs. W. G.	Rolnick, Dr. Harry C.
Clow, Mrs. Harry B.	Holt, Miss Ellen	Sargent, Ralph
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Dennehy, Thomas C., Jr.	Leland, Samuel	Templeton, Walter L.
Elliott, Frank R.	Marzluff, Frank W.	Thornburn, John N.
Fallon, Dr. W. Raymond	McDonald, Lewis	Vasalle, Rudolph A.
Finnegan,	Morey, Dr. Charles W.	Weisskopf, Dr. Max A.
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Foreman, Mrs. Alfred K.	Oberfelder, Walter S.	Wright, H. C.
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Bruce, Richard H.	Johnson, Mrs. Sydney J.	Porter, Dr. Eliot F.
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Droste, Albert C.	Merker, George E., Jr.	Trott, James Edwards
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 Crowther, Fred D.  
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 Darfler, Walter L.  
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 Darrow, William W.  
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Gartner, Max L.  
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    Thomas F.  
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- Getzoff, Byron M.  
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   Howard B.  
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 Reiffel, Dr. Leonard  
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 Severns, Roger L.  
 Severance, George S.  
 Sewart, Whitney M.  
 Seymour, Fletcher  
 Shafer, Frederick C.  
 Shafer, Dr. Sid John  
 Shannon, Peter M.  
 Shantz, Marc A.  
 Shapiro, Arthur M.  
 Share, J. R.  
 Shaw, Lee C.  
 Shea, Richard E.  
 Shearer, James, II  
 Shedd, Mrs. Charles C.  
 Shedd, Jeffrey  
 Sheehan, Mrs. Robert R.  
 Sheehan, Thomas J.  
 Shepard, Kenneth E.  
 Shepherd, Ronald J.  
 Sherer, Mrs. Albert W.  
 Sheridan, Donald T.  
 Sheridan, Leo J.  
 Sheridan, Raymond M.  
 Sheridan, Robert P.  
 Sherman, John H.  
 Sherman, Robert T.  
 Sherman, Mrs. Robert T.  
 Shetler, Stanley L.  
 Shields, G. A.  
 Shilton, Earle A.  
 Shine, Joseph J.  
 Shimer, William B.  
 Shipley, M. L.  
 Schlaes, Harry L.  
 Shlopach, Wallace B.  
 Shoemaker, F. Wells  
 Sholes, DeVer  
 Short, Jeffrey R., Jr.  
 Short, William H.  
 Shrader, Frank K.  
 Shuart, Karl P.  
 Shuffitowski, Joseph T.  
 Shure, Arnold I.  
 Shuster, Leroy C.  
 Shutack, John T.  
 Shriver, Robert  
   Sargent, Jr.  
 Shy, Ira O.  
 Sieber, Paul E.  
 Siegan, B. H.  
 Sierocinski, E. John  
 Sieron, Robert D.  
 Silber, Newton E.  
 Silver, Mrs. M.  
 Silverstein, Mrs. Milton  
 Silverthorne, Mrs.  
   George  
 Simanski, Mrs. Julia  
 Simjack, Miss Marybeth  
 Simmon, Dr.  
   Nicholas M.  
 Simmons, George H.  
 Simmons, Dr. Nicholas L.  
 Simon, Mrs. Arnold B.  
 Simon, Charles H.  
 Simon, George E.  
 Simpson, Benjamin I.  
 Simpson, John B.  
 Simpson, Mrs. Donald J.  
 Simpson, E. A.  
 Simpson, John B.  
 Simpson, Justin  
 Sims, David K.  
 Singer, Carl N.  
 Singer, Morris T.  
 Singleton, Thomas B.  
 Sippel, Edward A.  
 Sisler, George F.  
 Sitek, John A.  
 Sittler, Dr. W. Walter  
 Sivyver, Warner  
 Skaff, Mrs. Ernest  
 Skamfer, Robert  
 Skan, Leon N.  
 Skeie, Kermit A.  
 Sklansky, Mrs. M. A.  
 Sklar, N. Raoul  
 Skoczek, Mrs. Roman A.  
 Skoner, Ralph  
 Skudera, Mrs. Marie  
 Slater, Milton E.  
 Slindee, Mrs. Edward A.  
 Sloan, Dr. Jack H.  
 Slottow, Richard S.  
 Smalley, B. L.  
 Smalley, Dr. Charles J.  
 Smalley, John H.  
 Smigiel, Chester W.  
 Smith, C. D.  
 Smith, Charles L.  
 Smith, F. Gordon  
 Smith, George P. F.  
 Smith, Goff  
 Smith, H. Kellogg  
 Smith, H. William  
 Smith, Harold A.

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Smith, Harry C.	Stahl, John	Stirling, Miss Dorothy
Smith, Harry T.	Stahl, T. R.	Stix, Lawrence C., Jr.
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Smith, John Justin	Stanbery, J. N.	Stocker, Frederick B., Jr.
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Smith, Dr. Manuel	Stanley, E. V.	Stofft, Edmond B.
Smith, Norbert	Stanton, Mrs. Francis R.	Stohl, Milton R.
Smith, Owen	Stanton, John	Stokesberry, Paul W.
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Smith, S. S.	Starkweather, M. F.	Stone, Mrs. E. J.
Smoker, Richard E.	Starzyk, Dale	Stone, Harry L.
Smyth, David B.	Stauffacher, E. L.	Stone, Herbert Stuart
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Sommers, Bert Edward	Steigmann, Dr.	Stover, Frank C.
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Sorensen, L. W.	Steinhorn, Mrs. S. R.	Stratz, Albert E.
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Sowa, Frank	Stenhouse, Miss	Strnad, James E., Jr.
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Sparberg, Sidney J.	Stephan, Edmund A.	Stuart, La Rhett L.
Spark, David I.	Stephens, Dr. Natalie	Stuart, Lyman J.
Spaulding, George E.	Sterling, James R.	Stuart, William M.
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Spencer, Mrs. I.	Stern, Herbert L.	Study, Mrs. Robert
Spencer, William N.	Stern, Herbert L., Jr.	Sturdy, Franklin D.
Sperry, Oliver R.	Stern, Lawrence F.	Stueckemann, Mrs.
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Van Stanten, James  
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Varley, John S.



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- Vasalle, Master David  
 Vaughan, A. W.  
 Vaughn, Wilbert T.  
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 Velvel, Charles  
 Velvel, H. R.  
 Venrick, Mrs. Charles F.  
 Vergeck, Bruno J.  
 Verhaag, Dr. Joseph E.  
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 Vernon, Leroy N.  
 Verros, Harry Peter  
 Vetter, Paul G.  
 Veverka, Dr. Frank J.  
 Vicari, Dr. Frank A.  
 Vick, Maurice B.  
 Victorine, Vernon E.  
 Viger, James W.  
 Vihon, Charles H.  
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 Vilsoet, William  
 Vincenti, Anthony P.  
 Vivas, Julio  
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 Von Brauchitsch,  
 Frederick C.  
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 Von Gehr, George  
 Voorhis, Jerry  
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 Vyse, T. A. E.
- Wach, Dr. Edward C.  
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 Wadsworth, Robert  
 Woodman  
 Wagoner, William F.  
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 Waldie, Benjamin D.  
 Waldman, Dr. Albert G.  
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 Waldo, C. Ives, Jr.  
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 Walker, Malcolm M.  
 Walker, Reno R.  
 Wallace, William B.
- Wallace, Zearl B.  
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 Waller, Fletcher C.  
 Wallerstedt, R. W.  
 Wallerstein, David B.  
 Wallgren, Eric M.  
 Walling, Mrs.  
 Willoughby G.  
 Wallingford, Donald H.  
 Wallis, Wayne  
 Walter, Guy S.  
 Walters, Gary G.  
 Walther, Cole  
 Waltman, C. E.  
 Waltman, Charles T.  
 Wanda, Dimitry  
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 Wang, Dr. S. Y.  
 Wanger, David E., Jr.  
 Wanzer, H. Stanley  
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 Warde, Frederick A.  
 Wardwell, Allen  
 Wardwell, Henry  
 Ware, James R.  
 Ware, Willis C.  
 Warman, Winfield C.  
 Warner, Kenneth O.  
 Warner, Richard C.  
 Warner, Peter B.  
 Warren, Ben O.  
 Warren, Richard C.  
 Warshawsky, Roy I.  
 Warshell, Henry L.  
 Washburn, Dr.  
 Kenneth C.  
 Wasson, Theron  
 Waterfield, John R.  
 Waterman, Mrs. Alex H.  
 Watling, John  
 Watrons, David C.  
 Watson, D. R.  
 Watson, George  
 Watson, Norman E.  
 Watson, Mrs. Thomas S.,  
 Jr.  
 Watson, William D.  
 Watts, Amos H.  
 Watts, G. W.  
 Watts, James A.  
 Watts, Dr. Walter F.  
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 Weatherby, George W.  
 Weathers, Everett A.  
 Webb, Dr. A. C.  
 Webb, Dr. J. Lewis  
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- Weber, Paul W.  
 Webster, Dr. Augusta  
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 Webster, Wesley G.  
 Weeks, Andrew G.  
 Weeks, Harrison S.  
 Weick, George T.  
 Weidert, William C.  
 Weil, Mrs. Carl H.  
 Weil, David Maxwell  
 Weiner, Aaron B.  
 Weiner, Charles  
 Weiner, Irwin S.  
 Weinstein, Harold  
 Weinstein, M. A.  
 Weintraub, Benjamin  
 Weisbrod, Mrs.  
 H. Johnstone  
 Weisman, Mrs. Nat  
 Weiss, Dr. Arthur M.  
 Weiss, Dr. Marvin A.  
 Weiss, Louis J.  
 Weisz, William J.  
 Welch, Raymond W., Jr.  
 Wellman, Lester R., Jr.  
 Wells, Sidney  
 Welsh, Vernon M.  
 Welton, Arthur D.  
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 Wendt, Mrs. M. R.  
 Wenner, Mrs. David, Jr.  
 Wenninger, William C.  
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 Werner, Dr. Howard L.  
 Werrenrath, Reinald, Jr.  
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 Wessling, Richard  
 West, Arthur  
 West, James D.  
 West, Lawrence J.  
 West, Richard H.  
 Westbrook, Charles H.  
 Westbrook, Frank  
 Westerfield, Harry G.  
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 Lenora C.  
 Westfall, Dr. Robert E.  
 Wetherell, Warren  
 Whall, Arthur L.  
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 Joseph P., Jr.  
 Wheary, Warren  
 Wheaton, David  
 Wheeler, Henry P.  
 Wheeler, John B.  
 Wheeler, W. L.  
 White, Gordon  
 White, Dr. Gregory J.  
 White, John G.  
 White, Miss Naomi  
 White, Dr. Michael S.

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White, Dr. Philip C.	Winters, Ernest J.	Wujcik, Robert
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White, Richard H.	Wisner, David E.	Wynne, Walter
White, Robert P.	Wiss, Dr. Edward J.	Wynne, Mrs. Lloyd
Whitelock, John B.	Withall, H. H.	
Whiteman, Weston K.	Withall, Mrs. William E.	Xelowski, Dr. Thad
Whiteway, Mrs. R. E.	Witt, Robert J.	
Whiting, Lawrence H.	Witte, Lester	Yacullo, Dr. William A.
Whitsell, Dr. F. M.	Witty, Dr. Drake R. A.	Yager, Richard Sidney
Whitte, Virgel E.	Wlocholl, Arthur	Yavitz, Sidney M.
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Wilby, A. C.	Wolf, Andrew	Ylvsaker, L.
Wiles, Bradford	Wolf, C. W.	Yntema, Dr. Leonard F.
Wilhelm, Eugene A.	Wolf, Morris E.	Yohe, C. Lloyd
Wilkes, Mrs. R. M.	Wolf, Albert M.	Young, C. S.
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Williams, Mrs.	Wood, Arthur M.	Zabor, Dr. Robert C.
Ednyfed H.	Wood, C. A.	Zaczek, Miss
Williams, Emory	Wood, Harold F.	Genevieve A.
Williams, Lynn A.	Wood, Kenward T.	Zagrodny, Edward
Williams, Dr. O. B.	Wood, Mrs. Phylis	Zahn, Louis
Williams, Dr. Philip C.	Wood, Reverend	Zarish, Mrs. Joseph F.
Williams, Ralph E.	Walter S.	Zartman, James N.
Williams, R. Arthur	Wood, William A.	Zehr, Ores E.
Williams, Robert J.	Wood, Mrs. William J.	Zeiss, Dr. Chester R.
Williamson, Harold A.	Woodall, Lloyd	Zeitlin, Dr. N. S.
Willing, Mrs. Mark S., Jr.	Woodman, Dudley J.	Zeitlin, Samuel E.
Willis, George H.	Woodruff, Donald E.	Zekman, Dr. Theodore N.
Willis, Ivan L.	Woods, Dr. A. W.	Zelinsky, S. F.
Willy, Dr. Ralph G.	Woods, Robert A.	Zelinsky, Mrs. S. F.
Wilsey, Dr. H. Lawrence	Woodside, William S.	Zeller, Charles B.
Wilson, Christopher W.	Woodson, William T.	Zerega, Joseph J.
Wilson,	Woodward, Miss	Ziegler, Dr. George E.
Christopher W., Jr.	Mary H.	Zielinski, Dr. Victor J.
Wilson, Dr. Earle E.	Woody, Warren V.	Zigler, John D.
Wilson, E. W.	Woolley, Murray B.	Zimmerman, Austin M.
Wilson, H. B.	Woolpy, Max	Zimmerman, Charles W.
Wilson, Harold E.	Workman, S. L.	Zimmerman, Herbert
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Wilson, Joseph J.	Works, Mrs. Nelson C., Jr.	Zimmerman, Dr. Nathan
Wilson, Robert M.	Worthy, James C.	Zimmerman, Otto H.
Wilson, Mrs. Roger V.	Wray, Franklin C.	Zimmermann, Frank O.
Windes, Guilford R.	Wray, Glenn	Zimmermann, Mrs. P. T.
Winkenweder, V. O.	Wreath, Robert L.	Zisook, Edmond N.
Winkler, Edward	Wright, John A.	Zitzewitz, Arthur F.
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Winston, Farwell	Wright, Dr. F. Howell	Zurek, Anthony A.
Winter, Mrs. Gibson	Wright, Miss	Zurek, Francis J.
Winter, Ted	Margaret J.	Zusser, Maurice M.
Winterbotham, John R.	Wrightson, William F.	Zylstra, Clifford H.

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## DECEASED 1961

Aitchison, Robert J.  
Amberg, Harold V.

Burnham, Mrs. Daniel H.  
Butler, Horace G.

Flack, Dr. Hugh A.

Harman, Dr. Hubert F.  
Harrison, Rodney D.

Jones, Mrs.  
Walter Clyde, Sr.

Koch, Carl

McClurg, Verne O.  
McDonough, John J.  
Montgomery, S. A.

Noyes, Mrs. Ernest

Oberfelder, Joseph H.  
Oberman,  
Dr. Abraham M.

Perlman, Alfred H.  
Price, Griswold A.

Samuels, Benjamin  
Smith, Bernard Peacock  
Stebler, Mrs. W. J.

ARTICLES OF INCORPORATION  
AMENDED BY LAWS





# Articles of Incorporation

STATE OF ILLINOIS

DEPARTMENT OF STATE

WILLIAM H. HINRICHSSEN, *Secretary of State*

TO ALL TO WHOM THESE PRESENTS SHALL COME, GREETING:

Whereas, a Certificate duly signed and acknowledged having been filed in the office of the Secretary of State, on the 16th day of September, A.D. 1893, for the organization of the COLUMBIAN MUSEUM OF CHICAGO, under and in accordance with the provisions of "An Act Concerning Corporations," approved April 18, 1872, and in force July 1, 1872, and all acts amendatory thereof, a copy of which certificate is hereto attached.

Now, therefore, I, William H. Hinrichsen, Secretary of State of the State of Illinois, by virtue of the powers and duties vested in me by law, do hereby certify that the said COLUMBIAN MUSEUM OF CHICAGO is a legally organized Corporation under the laws of this State.

In Testimony Whereof, I hereto set my hand and cause to be affixed the Great Seal of State. Done at the City of Springfield, this 16th day of September, in the year of our Lord one thousand eight hundred and ninety-three, and of the Independence of the United States the one hundred and eighteenth.

W. H. HINRICHSSEN,

*Secretary of State.*

[SEAL]

TO HON. WILLIAM H. HINRICHSSEN,

SECRETARY OF STATE:

SIR:

We, the undersigned citizens of the United States, propose to form a corporation under an act of the General Assembly of the State of Illinois, entitled "An Act Concerning Corporations," approved April 18, 1872, and all acts amendatory thereof; and that for the purposes of such organization we hereby state as follows, to-wit:

1. The name of such corporation is the "COLUMBIAN MUSEUM OF CHICAGO."

2. The object for which it is formed is for the accumulation and dissemination of knowledge, and the preservation and exhibition of objects illustrating Art, Archaeology, Science and History.

3. The management of the aforesaid museum shall be vested in a Board of FIFTEEN (15) TRUSTEES, five of whom are to be elected every year.

4. The following named persons are hereby selected as the Trustees for the first year of its corporate existence:

Edward E. Ayer, Charles B. Farwell, George E. Adams, George R. Davis, Charles L. Hutchinson, Daniel H. Burnham, John A. Roche, M. C. Bullock, Emil G. Hirsch, James W. Ellsworth, Allison V. Armour, O. F. Aldis, Edwin Walker, John C. Black and Frank W. Gunsaulus.

5. The location of the Museum is in the City of Chicago, County of Cook, and State of Illinois.

(Signed)

George E. Adams, C. B. Farwell, Sidney C. Eastman, F. W. Putnam, Robert McCurdy, Andrew Peterson, L. J. Gage, Charles L. Hutchinson, Ebenezer

Buckingham, Andrew McNally, Edward E. Ayer, John M. Clark, Herman H. Kohlsaas, George Schneider, Henry H. Getty, William R. Harper, Franklin H. Head, E. G. Keith, J. Irving Pearce, Azel F. Hatch, Henry Wade Rogers, Thomas B. Bryan, L. Z. Leiter, A. C. Bartlett, A. A. Sprague, A. C. McClurg, James W. Scott, Geo. F. Bissell, John R. Walsh, Chas. Fitzsimmons, John A. Roche, E. B. McCagg, Owen F. Aldis, Ferdinand W. Peck, James H. Dole, Joseph Stockton, Edward B. Butler, John McConnell, R. A. Waller, H. C. Chatfield-Taylor, A. Crawford, Wm. Sooy Smith, P. S. Peterson, John C. Black, Jno. J. Mitchell, C. F. Gunther, George R. Davis, Stephen A. Forbes, Robert W. Patterson, Jr., M. C. Bullock, Edwin Walker, George M. Pullman, William E. Curtis, James W. Ellsworth, William E. Hale, Wm. T. Baker, Martin A. Ryerson, Huntington W. Jackson, N. B. Ream, Norman Williams, Melville E. Stone, Bryan Lathrop, Eliphalet W. Blatchford, Philip D. Armour.

STATE OF ILLINOIS }  
COOK COUNTY } ss.

I, G. R. MITCHELL, a NOTARY PUBLIC in and for said County, do hereby certify that the foregoing petitioners personally appeared before me and acknowledged severally that they signed the foregoing petition as their free and voluntary act for the uses and purposes therein set forth.

Given under my hand and notarial seal this 14th day of September, 1893.

[SEAL] G. R. MITCHELL,  
NOTARY PUBLIC, COOK COUNTY, ILL.

#### CHANGE IN ARTICLE 1

Pursuant to a resolution passed at a meeting of the corporate members held the 25th day of June, 1894, the name of the COLUMBIAN MUSEUM was changed to FIELD COLUMBIAN MUSEUM. A certificate to this effect was filed June 26, 1894, in the office of the Secretary of State for Illinois.

#### CHANGE IN ARTICLE 1

Pursuant to a resolution passed at a meeting of the corporate members held the 8th day of November, 1905, the name of the FIELD COLUMBIAN MUSEUM was changed to FIELD MUSEUM OF NATURAL HISTORY. A certificate to this effect was filed November 10, 1905, in the office of the Secretary of State for Illinois.

#### CHANGE IN ARTICLE 3

Pursuant to a resolution passed at a meeting of the corporate members held the 10th day of May, 1920, the management of FIELD MUSEUM OF NATURAL HISTORY shall be invested in a Board of TWENTY-ONE (21) TRUSTEES, who shall be elected in such manner and for such time and term of office as may be provided for by the By-Laws. A certificate to this effect was filed May 21, 1920, in the office of the Secretary of State for Illinois.

#### CHANGE IN ARTICLE 1

Pursuant to a resolution passed at a meeting of the corporate members held the 15th day of November, 1943, the name of FIELD MUSEUM OF NATURAL HISTORY was changed to CHICAGO NATURAL HISTORY MUSEUM. A certificate to this effect was filed November 23, 1943, in the office of the Secretary of State for Illinois.

# Amended By-Laws

JANUARY 1962

## ARTICLE I

### MEMBERS

SECTION 1. Members shall be of twelve classes, Corporate Members, Honorary Members, Patrons, Corresponding Members, Benefactors, Contributors, Life Members, Non-Resident Life Members, Associate Members, Non-Resident Associate Members, Sustaining Members, and Annual Members.

SECTION 2. The Corporate Members shall consist of the persons named in the articles of incorporation, and of such other persons as shall be chosen from time to time by the Board of Trustees at any of its meetings, upon the recommendation of the Executive Committee; provided, that such person named in the articles of incorporation shall, within ninety days from the adoption of these By-Laws, and persons hereafter chosen as Corporate Members shall, within ninety days of their election, pay into the treasury the sum of Twenty Dollars (\$20.00) or more. Corporate Members becoming Life Members, Patrons or Honorary Members shall be exempt from dues. Annual meetings of said Corporate Members shall be held at the same place and on the same day that the annual meeting of the Board of Trustees is held.

SECTION 3. Honorary Members shall be chosen by the Board from among persons who have rendered eminent service to science, and only upon unanimous nomination of the Executive Committee. They shall be exempt from all dues.

SECTION 4. Patrons shall be chosen by the Board upon recommendation of the Executive Committee from among persons who have rendered eminent service to the Museum. They shall be exempt from all dues, and, by virtue of their election as Patrons, shall also be Corporate Members.

SECTION 5. Any person contributing or devising the sum of One Hundred Thousand Dollars (\$100,000.00) in cash, or securities, or property to the funds of the Museum, may be elected a Benefactor of the Museum.

SECTION 6. Corresponding Members shall be chosen by the Board from among scientists or patrons of science residing in foreign countries, who render important service to the Museum. They shall be elected by the Board of Trustees at any of its meetings. They shall be exempt from all dues and shall enjoy all courtesies of the Museum.

SECTION 7. Any person contributing to the Museum One Thousand Dollars (\$1,000.00) or more in cash, securities, or material, may be elected a Contributor of the Museum. Contributors shall be exempt from all dues and shall enjoy all courtesies of the Museum.

SECTION 8. Any person paying into the treasury the sum of Five Hundred Dollars (\$500.00) at any one time, shall, upon the unanimous vote of the Board, become a Life Member. Life Members shall be exempt from all dues, and shall enjoy all the privileges and courtesies of the Museum that are accorded to members of the Board of Trustees. Any person residing fifty miles or more from the city of Chicago, paying into the treasury the sum of One Hundred Dollars (\$100.00) at any one time, shall, upon the unanimous vote of the Board, become a Non-Resident Life Member. Non-Resident Life Members shall be exempt from all dues, and shall enjoy all the privileges and courtesies of the Museum that are accorded to members of the Board of Trustees.

SECTION 9. Any person paying into the treasury of the Museum the sum of One Hundred Dollars (\$100.00) at any one time, shall, upon the vote of the Board,

become an Associate Member. Associate Members shall be exempt from all dues, and shall be entitled to tickets admitting Member and members of family, including non-resident home guests; all publications of the Museum issued during the period of their membership, if so desired; reserved seats for all lectures and entertainments under the auspices of the Museum, provided reservation is requested in advance; and admission of holder of membership and accompanying party to all special exhibits and Museum functions day or evening. Any person residing fifty miles or more from the city of Chicago, paying into the treasury the sum of Fifty Dollars (\$50.00) at any one time, shall, upon the unanimous vote of the Board, become a Non-Resident Associate Member. Non-Resident Associate Members shall be exempt from all dues, and shall enjoy all the privileges and courtesies of the Museum that are accorded to Associate Members.

SECTION 10. Sustaining Members shall consist of such persons as are selected from time to time by the Board of Trustees at any of its meetings, and who shall pay an annual fee of Twenty-five Dollars (\$25.00), payable within thirty days after notice of election and within thirty days after each recurring annual date. This Sustaining Membership entitles the Member to free admission for the Member and family to the Museum on any day, the Annual Report and such other Museum documents or publications issued during the period of their membership as may be requested in writing. When a Sustaining Member has paid the annual fee of \$25.00 for six years, such Member shall be entitled to become an Associate Member.

SECTION 11. Annual Members shall consist of such persons as are selected from time to time by the Board of Trustees at any of its meetings, and who shall pay an annual fee of Ten Dollars (\$10.00), payable within thirty days after each recurring annual date. An Annual Membership shall entitle the Member to a card of admission for the Member and family during all hours when the Museum is open to the public, and free admission for the Member and family to all Museum lectures and entertainments. This membership will also entitle the holder to the courtesies of the membership privileges of every museum of note in the United States and Canada, so long as the existing system of co-operative interchange of membership tickets shall be maintained, including tickets for any lectures given under the auspices of any of the museums during a visit to the cities in which the co-operative museums are located.

SECTION 12. All membership fees, excepting Sustaining and Annual, shall hereafter be applied to a permanent Membership Endowment Fund, the interest only of which shall be applied for the use of the Museum as the Board of Trustees may order.

## ARTICLE II

### BOARD OF TRUSTEES

SECTION 1. The Board of Trustees shall consist of twenty-one members. The respective members of the Board now in office, and those who shall hereafter be elected, shall hold office during life. Vacancies occurring in the Board shall be filled at a regular meeting of the Board, upon the nomination of the Executive Committee made at a preceding regular meeting of the Board, by a majority vote of the members of the Board present.

SECTION 2. Regular meetings of the Board shall be held on the third Monday of the month. Special meetings may be called at any time by the Chairman of the Board or the President, and shall be called by the Secretary upon the written request of three Trustees. Five Trustees shall constitute a quorum, except for the election of officers or the adoption of the Annual Budget, when seven Trustees shall be required, but meetings may be adjourned by any less number from day to day, or to a day fixed, previous to the next regular meeting.

SECTION 3. Reasonable written notice, designating the time and place of holding meetings, shall be given by the Secretary.

## ARTICLE III

### HONORARY TRUSTEES

SECTION 1. As a mark of respect, and in appreciation of services performed for the Institution, any Trustee who by reason of inability, on account of change



of residence, or for other cause or from indisposition to serve longer in such capacity shall resign his place upon the Board, may be elected, by a majority of those present at any regular meeting of the Board, an Honorary Trustee for life. Such Honorary Trustee will receive notice of all meetings of the Board of Trustees, whether regular or special, and will be expected to be present at all such meetings and participate in the deliberations thereof, but an Honorary Trustee shall not have the right to vote.

## ARTICLE IV

### OFFICERS

SECTION 1. The officers shall be the Chairman of the Board, the President, a First Vice-President, a Second Vice-President, a Third Vice-President, a Secretary, an Assistant Secretary, and a Treasurer. They shall be chosen by ballot by the Board of Trustees, a majority of those present and voting being necessary to elect. The Chairman of the Board, the President, and the Vice-Presidents shall be chosen from among the members of the Board of Trustees. The meeting for the election of officers shall be held on the third Monday of January of each year, and shall be called the Annual Meeting.

SECTION 2. The officers shall hold office for one year, or until their successors are elected and qualified, but any officer may be removed at any regular meeting of the Board of Trustees by a vote of two-thirds of all the members of the Board. Vacancies in any office may be filled by the Board at any meeting.

SECTION 3. The officers shall perform such duties as ordinarily appertain to their respective offices, and such as shall be prescribed by the By-Laws, or designated from time to time by the Board of Trustees.

## ARTICLE V

### THE TREASURER

SECTION 1. The Treasurer shall be custodian of the funds of the Corporation, except as hereinafter provided. He shall make disbursements only upon warrants, signed by such officer, or officers, or other persons as the Board of Trustees may from time to time designate.

SECTION 2. The securities and muniments of title belonging to the Corporation shall be placed in the custody of some Trust Company of Chicago to be designated by the Board of Trustees, which Trust Company shall collect the income and principal of said securities as the same become due, and pay same to the Treasurer, except as hereinafter provided. Said Trust Company shall allow access to and deliver any or all securities or muniments of title to the joint order of the following officers, namely: the Chairman of the Board, the President or one of the Vice-Presidents, jointly with the Chairman, or one of the Vice-Chairmen, of the Finance Committee of the Museum. The Chairman of the Board, the President or any one of the Vice-Presidents, jointly with either the Chairman or any one of the other members of the Finance Committee, are authorized and empowered (a) to sell, assign and transfer as a whole or in part the securities owned by or registered in the name of the Chicago Natural History Museum, and, for that purpose, to endorse certificates in blank or to a named person, appoint one or more attorneys, and execute such other instruments as may be necessary, and (b) to cause any securities belonging to this Corporation now, or acquired in the future, to be held or registered in the name or names of a nominee or nominees designated by them.

SECTION 3. The Treasurer shall give bond in such amount, and with such sureties as shall be approved by the Board of Trustees.

SECTION 4. The Harris Trust and Savings Bank shall be custodian of "The N. W. Harris Public School Extension of the Chicago Natural History Museum" fund. The bank shall make disbursements only upon warrants signed by such officer or officers or other persons as the Board of Trustees of the Museum may from time to time designate.



## ARTICLE VI

### THE DIRECTOR

SECTION 1. The Board of Trustees shall elect a Director of the Museum, who shall remain in office until his successor shall be elected. He shall have immediate charge and supervision of the Museum, and shall control the operations of the Institution, subject to the authority of the Board of Trustees and its Committees. The Director shall be the official medium of communication between the Board, or its Committees, and the scientific staff and maintenance force.

SECTION 2. There shall be four scientific Departments of the Museum—Anthropology, Botany, Geology, and Zoology—each under the charge of a Chief Curator, subject to the authority of the Director. The Chief Curators shall be appointed by the Board upon the recommendation of the Director, and shall serve during the pleasure of the Board. Subordinate staff officers in the scientific Departments shall be appointed and removed by the Director upon the recommendation of the Chief Curators of the respective Departments. The Director shall have authority to employ and remove all other employees of the Museum.

SECTION 3. The Director shall make report to the Board at each regular meeting, recounting the operations of the Museum for the previous month. At the Annual Meeting, the Director shall make an Annual Report, reviewing the work for the previous year, which Annual Report shall be published in pamphlet form for the information of the Trustees and Members, and for free distribution in such number as the Board may direct.

## ARTICLE VII

### THE AUDITOR

SECTION 1. The Board shall appoint an Auditor, who shall hold his office during the pleasure of the Board. He shall keep proper books of account, setting forth the financial condition and transactions of the Corporation, and of the Museum, and report thereon at each regular meeting, and at such other times as may be required by the Board. He shall certify to the correctness of all bills rendered for the expenditure of the money of the Corporation.

## ARTICLE VIII

### COMMITTEES

SECTION 1. There shall be five Committees, as follows: Finance, Building, Auditing, Pension, and Executive.

SECTION 2. The Finance Committee shall consist of not less than five or more than seven members, the Auditing and Pension Committees shall each consist of three members, and the Building Committee shall consist of five members. All members of these four Committees shall be elected by ballot by the Board at the Annual Meeting, and shall hold office for one year, and until their successors are elected and qualified. In electing the members of these Committees, the Board shall designate the Chairman and Vice-Chairman by the order in which the members are named in the respective Committee; the first member named shall be Chairman, the second named the Vice-Chairman, and the third named, Second Vice-Chairman, succession to the Chairmanship being in this order in the event of the absence or disability of the Chairman.

SECTION 3. The Executive Committee shall consist of the Chairman of the Board, the President, the Chairman of the Finance Committee, the Chairman of the Building Committee, the Chairman of the Auditing Committee, the Chairman of the Pension Committee, and three other members of the Board to be elected by ballot at the Annual Meeting.

SECTION 4. Four members shall constitute a quorum of the Executive Committee, and in all standing Committees two members shall constitute a quorum. In the event that, owing to the absence or inability of members, a quorum of the regularly elected members cannot be present at any meeting of any Committee, then the Chairman thereof, or his successor, as herein provided, may summon any members of the Board of Trustees to act in place of the absentee.

SECTION 5. The Finance Committee shall have supervision of investing the endowment and other funds of the Corporation, and the care of such real estate as may become its property. It shall have authority to make and alter investments from time to time, reporting its actions to the Board of Trustees. The Finance Committee is fully authorized to cause any funds or investments of the Corporation to be made payable to bearer, and it is further authorized to cause real estate of the Corporation, its funds and investments, to be held or registered in the name of a nominee selected by it.

SECTION 6. The Building Committee shall have supervision of the construction, reconstruction, and extension of any and all buildings used for Museum purposes.

SECTION 7. The Executive Committee shall be called together from time to time as the Chairman may consider necessary, or as he may be requested to do by three members of the Committee, to act upon such matters affecting the administration of the Museum as cannot await consideration at the Regular Monthly Meetings of the Board of Trustees. It shall, before the beginning of each fiscal year, prepare and submit to the Board an itemized Budget, setting forth the probable receipts from all sources for the ensuing year, and make recommendations as to the expenditures which should be made for routine maintenance and fixed charges. Upon the adoption of the Budget by the Board, the expenditures stated are authorized.

SECTION 8. The Auditing Committee shall have supervision over all accounting and bookkeeping, and full control of the financial records. It shall cause the same, once each year, or oftener, to be examined by an expert individual or firm, and shall transmit the report of such expert individual or firm to the Board at the next ensuing regular meeting after such examination shall have taken place.

SECTION 9. The Pension Committee shall determine by such means and processes as shall be established by the Board of Trustees to whom and in what amount the Pension Fund shall be distributed. These determinations or findings shall be subject to the approval of the Board of Trustees.

SECTION 10. The Chairman of each Committee shall report the acts and proceedings thereof at the next ensuing regular meeting of the Board.

SECTION 11. The Chairman of the Board and the President shall be ex-officio members of all Committees, and the Chairman of the Board shall be Chairman of the Executive Committee. Vacancies occurring in any Committee may be filled by ballot at any regular meeting of the Board.

## ARTICLE IX

### NOMINATING COMMITTEE

SECTION 1. At the November meeting of the Board each year, a Nominating Committee of three shall be chosen by lot. Said Committee shall make nominations for membership of the Finance Committee, the Building Committee, the Auditing Committee, and the Pension Committee, and for three members of the Executive Committee, from among the Trustees, to be submitted at the ensuing December meeting and voted upon at the following Annual Meeting in January.

## ARTICLE X

SECTION 1. Whenever the word "Museum" is employed in the By-Laws of the Corporation, it shall be taken to mean the building in which the Museum as an Institution is located and operated, the material exhibited, the material in study collections, or in storage, furniture, fixtures, cases, tools, records, books, and all appurtenances of the Institution and the workings, researches, installations, expenditures, field work, laboratories, library, publications, lecture courses, and all scientific and maintenance activities.

SECTION 2. The By-Laws, and likewise the Articles of Incorporation, may be amended at any regular meeting of the Board of Trustees by a vote in favor thereof of not less than two-thirds of all the members present, provided the amendment shall have been proposed at a preceding regular meeting.











CHICAGO  
NATURAL  
HISTORY  
MUSEUM